

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

PSH 1 (SR 5)
Seattle Freeway - South Albro Storm Sewer
Outfall
King County

NOTICE TO ALL PLAN HOLDERS

The office of the Resident Engineer assigned to show this project to prospective bidders is located at 707 South Spokane Street, Seattle, Washington, telephone Mutual 2-0481.

IMMEDIATELY FOLLOWING THE DATE OF OPENING BIDS, PLEASE RETURN THIS SET OF PLANS TO THE DEPARTMENT OF HIGHWAYS, HIGHWAYS-LICENSES BUILDING, OLYMPIA, WASHINGTON, OR TO THE OFFICE OF THE DISTRICT ENGINEER, DEPARTMENT OF HIGHWAYS, 509 FAIRVIEW AVENUE NORTH, SEATTLE, WASHINGTON.

C. G. PRAHL, P.E.
Director of Highways

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JAN 5 1966
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WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

January 5, 1966

ATTENTION: ALL BIDDERS AND PLANHOLDERS

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ADDENDUM NO. 1

You are hereby notified that the special provisions and plans on the above referenced project are amended.

The special provisions are hereby amended as follows:

1. On page 29, under the heading "ALTERNATE CONSTRUCTION MANHOLE 2 TO MANHOLE 13", the following shall be added as additional paragraphs:

Where the Contractor elects to furnish concrete sewer pipe, it shall be placed as shown on the plans based on the outside diameter of the pipe used.

The maximum limits for measurement and payment for the various items of work involved, including manhole construction, will be based on an outside diameter for the pipe of 67 1/2 inches, regardless of the type of pipe placed.

2. On page 31, under the heading "TIMBER, LUMBER AND TIMBER PILING", the following shall be added as an additional paragraph:

All bolts, nuts and washers used in the construction of the timber fenders shall be galvanized in accordance with ASTM Designation A-153, class C.

The plans are hereby amended as follows:

3. On sheet 13, the ASTM Designation for the 3/8" x 12" Sponge Rubber Gasket shall be revised to read:

ASTM Designation D-1056-59T Grade SCE-43.

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The plan sheet has not been revised for item 3 of this addendum; however, the Contractor shall take this change into consideration when submitting his bid.

All bidders in advance of the opening of bids will be required to furnish the Director of Highways with evidence of the receipt of said addendum, which addendum will be incorporated in and made a part of the contract when awarded and when formally executed.

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Director of Highways

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SPECIAL PROVISIONS

The following special provisions, to be used in conjunction with the standard specifications of the Department of Highways, adopted in January, 1963, are hereby made a part of this contract.

The special provisions hereinafter contained supersede any conflicting provisions of the standard specifications.

DATE OF OPENING BIDS*

Sealed bids will be received at the office of the Director of Highways, Olympia, Washington, until 10:00 A.M., Tuesday, January 11, 1966 and then publicly opened and read.

Bids delivered in person will be received only at the Department of Highways Reception Desk located on the fourth floor of the Highways-Licenses Building.

DESCRIPTION OF WORK

The contemplated work to be performed under this contract consists of the improvement of Primary State Highway No. 1, Sign Route No. 5, in King County, Seattle Freeway, South Albros Storm Sewer Outfall, by construction of a storm sewer outfall from near the intersection of South Graham Street with the Seattle Freeway, westward along South Graham Street, southwesterly across 14th Avenue South to South Elizabeth Street, west along South Elizabeth Street to Ellis Avenue South, south along Ellis Avenue South to East Marginal Way, south along East Marginal Way and across East Marginal Way to a discharge point in Slip No. 4, all in accordance with the attached plans, these special provisions and the standard specifications.

PLANS AND SPECIFICATIONS*

The 2nd paragraph of section 2.02 of the standard specifications is hereby deleted in its entirety and the following substituted therefor:

Plans and specifications may be obtained from the Director of Highways at Olympia, Washington, by payment for the use of said plans and specifications, of the amount set forth in the call for bids. Under the law such fee is considered as rental and will not be returnable. The plans and specifications shall be returned to the Director of Highways on or before the date of the opening of bids.

On special projects, a refundable deposit may be required in addition to the rental charge as required above in order to further assure a return of such copies of maps, plans and specifications and after the return of which the refund of said deposit will be made. The requirements for and the amount of any deposit required will be included in the call for bids.

After award of the contract, the successful bidder will be furnished copies of plans and specifications as set forth in the special provisions of each project.

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*Denotes GSP

ISSUANCE OF PLANS AND SPECIFICATIONS AFTER AWARD OF CONTRACT*

Plans and special provisions, after award of contract, will be issued on the following basis:

| <u>To General Contractor</u> | <u>No. of Sets</u> | <u>Cost</u> |
|---|--------------------|--|
| Reduced Plans (12" x 18") and accompanying special provisions | 10 | <u>No cost</u> and furnished automatically upon award |
| Reduced Plans (12" x 18") and accompanying special provisions | 10 | No cost, furnished <u>only</u> upon request on projects where the plan sheets number more than 100. |
| Large plans (24" x 36") and accompanying special provisions | 1 | No cost and will be furnished <u>only</u> upon request. |
| <u>To Subcontractors and Suppliers</u> | | |
| Reduced Plans (12" x 18") and accompanying special provisions | 1 | No cost and will be furnished upon request by an <u>approved</u> subcontractor or material supplier. |

Additional Plans to General Contractor and Others Outside the Department

| | |
|--|----------------|
| Reduced plans (12" x 18") without special provisions | 2¢ per sheet* |
| Large plans (24" x 36") without special provisions | 40¢ per sheet* |

*Add mailing and handling cost to the amount for sheets. Payment may be made upon receipt of billing.

Special provisions will be available upon request at no cost.

Orders amounting to less than \$1.00 including mailing and handling will not be charged.

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PREPARATION OF PROPOSAL*

The last paragraph of section 2.05 of the standard specifications is hereby deleted in its entirety and the following substituted therefor:

Each proposal shall specify a unit or lump sum price typed or written with ink in figures only for each of the separate items called for.

EXECUTION OF CONTRACT*

The last paragraph of section 3.05 of the standard specifications, "Execution of Contract," is hereby amended to read as follows:

No proposal will be considered binding upon the State before the execution of the contract by the Director of Highways.

APPROVAL OF CONTRACTS*

Section 3.06 of the standard specifications, "Approval of Contracts," is hereby amended to read as follows:

All contracts awarded under these specifications must be approved and executed by the Director of Highways. Any materials ordered before such approval and execution by the Director will be entirely at the risk of the Contractor.

No work shall be performed on the project until the contract has been executed by the Director. The State may withhold payment for any work performed before the date of such execution.

REQUIRED FEDERAL AID PROVISIONS*

The Federal Aid Contract Provisions supersede any provisions of the Standard Specifications of the Department of Highways in conflict therewith, and are hereby made a part of this contract.

The Federal Aid Provisions included herein require that the Contractor insert them in each of his subcontracts, together with the wage rates which are a part thereof by reference. For this purpose, upon request to the Resident Engineer, the Contractor will be provided with extra copies of the Federal Aid Provisions and the applicable wage rates.

FUNDS

Federal and State funds are involved in the construction of this improvement.

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CONFORMITY WITH PLANS, AND DEVIATIONS*

The 1st paragraph of section 5.04 of the standard specifications is hereby revised by the addition of the following:

The roadway on curves shall be superelevated in accordance with the data placed upon the plans for that purpose.

The 2nd paragraph of section 5.04 of the standard specifications is hereby deleted in its entirety and the following substituted therefor:

All work performed shall be in reasonably close conformity with the lines, grades, cross sections, and dimensions shown on the plans or as staked by the Engineer. Where specific tolerances are stated in the plans, special provisions, or standard specifications, the work shall be performed within those stated limits. This provision modifies and supersedes any statements in conflict therewith which may appear in the several separate sections of the standard specifications.

STATE SALES TAX*

The work on this contract is classified as building, repairing or improving publicly owned streets, roads, etc. The provisions of the 1st subparagraph of section 7.01B of the standard specifications apply.

REGULATIONS OF THE STATE DEPARTMENTS OF GAME AND FISHERIES

In addition to the requirements of section 7.01D of the standard specifications, the Contractor shall comply with the following restrictions:

1. No heavy equipment shall be operated within the wetted perimeter of the stream. Excavation shall be accomplished from the stream banks.
2. Cofferdams shall be used to separate the work area from the flowing stream.
3. No toxicants, i.e. fresh concrete, cement or lime shall be allowed to fall, flow or leach into the flowing stream. Concrete shall have a minimum curing time of 7 days prior to dewatering from behind or removal of the cofferdam.
4. The operations are to be controlled to allow a minimum of siltation to the stream.
5. Under no circumstance is there to be created a block to stream flow or fish passage.
6. Debris from this project is to be removed from the project and disposed of by the Contractor.

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The State Departments of Game and Fisheries reserve the right to make further restrictions if deemed necessary for the protection of fish life.

All costs involved in complying with the provisions specified herein shall be considered as incidental to the construction of this project. No additional compensation will be allowed.

EMPLOYMENT*

Section 7.02A of the standard specifications, "Employment", is hereby amended to read as follows:

The Contractor shall not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, or age, unless it relates to a bona fide occupational qualification. The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, national origin, sex, or age except as modified above.

The foregoing will not be enforced in such a manner as to supersede Federal statutes, rules, and regulations; in case of conflict, the Federal requirements will govern.

CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT*

A certificate of nondiscrimination in employment shall be executed and furnished by the bidder with his bid proposal on any project financed with Federal funds. The form of certificate will be furnished with the proposal.

Failure on the part of the bidder to furnish the required certificate will be due cause for rejection of the bid.

If a contractor to whom an award is about to be made, except for lack of a nondiscrimination certificate, refuses or fails to promptly execute and furnish the required certificate within 10 days after notice by the Director of Highways that same is lacking from his proposal, the proposal guaranty, in form of bond, check, or cash which accompanied the bid, will be forfeited to the State.

Whenever a contractor requests permission to sublet a part of any contract involving Federal funds, he shall obtain this certification from his proposed subcontractor and forward it together with such request. No subcontract will be approved before receipt of such certification from the subcontractor.

For this purpose, additional forms may be obtained from the Project Engineer assigned to this improvement.

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PUBLIC WORKS - WAGES*

Section 7.02B1 of the standard specifications is hereby deleted in its entirety and the following substituted therefor:

All public works contracts are subject to the provisions of Chapter 63, Laws of 1945 and Chapter 133, Laws of Extra-ordinary Session, 1965, relative to wages to be paid to laborers, workmen or mechanics employed on public works of this State.

All laborers, workmen or mechanics shall be paid not less than the minimum hourly rate of wage determined in accordance with said laws, provided however, nothing herein contained shall be construed to prohibit the Contractor, subcontractor or other person doing or contracting to do the whole or any part of the work under this contract, from paying any such laborers, workmen or mechanics wages in excess of the hourly minimum specified.

Before payment is made by or on behalf of the State of any sums due under this contract, the Contractor and each subcontractor shall submit the Affidavit of Wages Paid, as supplied to him by the Engineer, attached to the progress or final payment voucher. The Engineer will obtain the verification of the Director, Department of Labor and Industries, that the prevailing wage requirements have been satisfied, as required by law. It will be the responsibility of the prime contractor to require all subcontractors to complete Affidavits of Wages Paid and to make proper filing of these.

If any dispute arises as to what are the prevailing rates of wages for work of a similar nature to that contemplated under the contract and such dispute cannot be adjusted by the parties in interest, including labor and management representatives, the matter shall be referred for arbitration to the Director of the Department of Labor and Industries of the State of Washington, and his decision therein shall be final, conclusive and binding on all parties involved in the dispute.

The Public Works Contract Division of the Department of Labor and Industries will provide the Contractor with applicable industrial insurance and medical aid classification and premium rates, and a copy of form S.F. 7887-A, Release for the Protection of Property Owner and General Contractor. This form is to be completed and returned to said Division of the Department of Labor and Industries after final acceptance of the contract for the purpose of obtaining a release with respect to the payment of industrial insurance and medical aid premium.

In addition to the requirements outlined herein the Contractor shall comply with and fulfill all requirements of the Federal Aid Provisions attached to the special provisions for contracts financed wholly or in part by Federal funds.

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WAGE RATES*

In compliance with the provisions of section 7.02B of the standard specifications and also in compliance with section 115 of the Federal Aid Highway Act of 1956, a list of hourly minimum wage rates is incorporated in and made a part of these specifications.

If the Contractor makes use of a labor classification not listed in the special provisions, the Contractor shall furnish a statement in writing from the agency from whom the labor was obtained that this is the prevailing rate of wage for this classification for the area in which the work is performed. This statement shall be included with the Contractor's wage affidavit certificate when it is submitted in accordance with section 7.02B of the standard specifications.

SAFETY REQUIREMENTS FOR ROCK DRILLING*

The subject matter under section 7.02C of the standard specifications, "Safety Requirements for Rock Drilling," is hereby deleted in its entirety and the following substituted therefor:

Pursuant to Section VII of Chapter 10, Section 2 of "Occupational Health Standards" as adopted by the Department of Labor and Industries, the "Threshold Limit Value" for any rock that requires drilling is shown in these special provisions. The Contractor shall observe the protective measures set out by the aforementioned department.

Any additional costs incurred by the Contractor by reason of protective measures required, will be considered as incidental to the construction and shall be included by him in the various bid items involved in the work.

THRESHOLD LIMIT VALUE

As required by section 7.02C of the standard specifications, "Safety Requirements for Rock Drilling," all rock which will be encountered in excavation and/or quarry has a Threshold Limit Value of 17 mppcf for brown siltstone and 10 mppcf for gray siltstone.

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FLAGMEN, BARRICADES, SIGNS AND TRAFFIC CONTROL*

Section 7.08 of the standard specifications, "Flagmen, Barricades, Signs and Traffic Control," is hereby supplemented by the following requirement:

Flagmen, Barricades, Signs and Traffic Control furnished or provided in conformance with section 7.08 of the standard specifications shall conform to the standards established in Part V of the "Manual on Uniform Traffic Control Devices for Streets and Highways," published by the U. S. Department of Commerce, June 1961. Copies may be purchased from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

TIME FOR COMPLETION

The 1st paragraph of section 8.01 of the standard specifications, "Time for Completion", is hereby amended to read as follows:

The improvement under this contract shall be completed in its entirety within the time specified in the special provisions. The contract time shall start with the first working day following the 20th day after award of the contract, or with such other date as may be provided in the special provisions.

The 3rd paragraph of section 8.01 of the standard specifications, "Time for Completion", is hereby amended to read as follows:

At the beginning of any contract which provides a specified number of working days for completion, a tentative date for completion of contract work will be established, based on the date of award of the contract and the number of working days specified.

The 5th paragraph of section 8.01 of the standard specifications, "Time for Completion", is hereby amended to read as follows:

A suspension order for a portion or all of the work will affect a working day to the extent that the actual completion time of the project is affected.

This project shall be completed in accordance with the provisions of section 8 of the standard specifications within 150 working days.

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PROSECUTION OF WORK*

Section 8.02 of the standard specifications is hereby changed to provide that the Contractor shall begin work under this contract as soon as the contract is executed.

RAILROAD COMPANY DEFINITION

"Railroad Company" as hereinafter used shall be the railroad company or companies, or railway company or companies specified in these special provisions. The following provisions, though referring to a single Railroad Company, shall be applicable to each of the following railroad companies or railway companies:

Oregon-Washington Railroad & Navigation Company and its
lessee Union Pacific Railroad Company
Pacific Coast Railroad Company
Northern Pacific Railway Company
Chicago, Milwaukee, St. Paul and Pacific Railroad Company
Great Northern Railway Company

FLAGGING COSTS TO THE RAILROAD COMPANY

Flagging costs incurred by the Railroad Company as a result of the Contractor's operations shall be at the Contractor's expense. The Railroad Company will submit bills for these expenses to the State, the State will pay the bills and deduct such amounts paid from the amounts due the Contractor on monthly estimates.

Upon completion of the project, the full amount of the estimated flagging costs as included in these special provisions, less the amount paid to that date, will be retained by the State for a period of 150 calendar days after said completion. After the 150-day period the State will refund to the Contractor the balance of the retained fund or, if there is insufficient funds, the Contractor will be billed for the additional costs incurred by the Railroad Company.

The amount retained to cover such incurred costs by the Railroad Company is in addition to funds reserved from the Contractor's pay estimates for labor and material liens as provided by RCW 60.28.010 and section 9.05 of the standard specifications as amended elsewhere in these special provisions.

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Conditions

Flagging and other protective services and devices will be provided by the Railroad Company to protect its facilities, property and movement of its trains or engines.

In general, the Railroad Company will furnish such flagging or other protective services and devices:

- a. For any excavation below elevation of track subgrade, if in the opinion of the Railroad Company's representative, track or other railroad facilities may be subject to settlement or movement.

For all work over or adjacent to the track, if, in the opinion of the Railroad Company's representative, said work represents a hazard to the Railroad Company.

- b. During any clearing, grubbing, grading or blasting in proximity to the facilities, which in the opinion of the Railroad Company's representative may endanger or interfere with railroad facilities or operations.
- c. When any of the Contractor's operations are carried on within or near railroad right of way and in the opinion of the Railroad Company's representative, could endanger railroad facilities or create a hazard to railroad operations.

Cost of Flagging and Other Protective Services and Devices

A full flagging crew generally consists of three men. Under certain conditions, more than three men may be required or a lesser number may be sufficient; however, additional personnel, such as communication linemen and/or signalmen, may be used to protect communication and signal facilities, if deemed necessary by the Railroad Company.

In addition, protective devices, such as crossing signals, indicators, tell-tales, lights, telephone, etc. may be required.

Additives

To all direct labor costs, there shall be additional charges for Vacation Allowances; Health and Welfare; Railroad Retirement and Unemployment; Taxes; Public Liability, Property Damage and Workmen's Compensation Insurance; and accounting and billing. For estimating purposes only, these additives collectively may be considered as approximately 30% of direct labor costs.

Contractor's Cost Obligations

The State has estimated flagging and protective services costs to the Railroad Company on this project to be \$1,500.00.

The amount is listed herein for information purposes and for the determination of the amount to be retained by the State as specified hereinbefore.

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The Contractor shall make his own estimate of the above costs and the costs thereof shall be considered as incidental to the cost of the project and shall be included in the pertinent pay items of work involved in this project. The Contractor shall have no claim against the State for charges to the Contractor in excess of the amount estimated either by the State or by the Contractor.

PROTECTION OF THE PROPERTY OF THE RAILROAD COMPANY*

For the protection of the property and to insure the safe operation of trains of the Railroad Company and of other companies lawfully using the track or occupying the right of way of said company, the following terms, together with the other provisions of this contract, will govern and be binding:

The Contractor shall exercise care in all operations and shall at his or its own cost and expense adequately protect the property of the Railroad Company and its appurtenances, property in its custody, or persons lawfully upon its right of way, from damage, destruction, interference or injury and shall so prosecute the work as not to interfere with the Railroad Company or its appurtenances, or any of the Railroad Company's trains or facilities, and shall complete the work to a condition whereby the same shall not interfere with or menace the integrity or safe and successful operations of the Railroad Company or its appurtenances, or any of the Railroad Company's trains or facilities.

The Contractor shall not transport any equipment, machinery or materials across the Railroad Company's tracks, except at a public crossing, without the written consent of the Railroad Company.

The Contractor shall keep the ditches of the Railroad Company open and clean from any deposits, and keep the right of way clean from debris, and shall clean and restore any ballast of the Railroad Company which is disturbed or becomes foul with dirt or materials when such deposits or damage result from the operations of the Contractor, except as provided elsewhere herein.

The Contractor shall conduct his work in such a manner that there will be a minimum of interference with the operation of railroad traffic. The Railroad Company will specify what periods will be allowed the Contractor for executing any part of the work wherein the Railroad Company's tracks will be obstructed or made unsafe for operation of railroad traffic.

With respect to the Contractor's operations, in carrying out the work, the Contractor shall employ such watchmen as may be necessary to prevent obstruction of the railroad track and interference with train movements. Such watchmen shall cooperate with the Railroad Company's flagmen or employees to insure the safety of train movements.

In the event that an emergency occurs in connection with the work specified herein, the Railroad Company reserves the right to do any and all work that may be necessary to maintain railroad traffic. If the emergency is caused by the Contractor, the Contractor shall pay the Railroad Company for the cost of such emergency work.

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When, in the opinion of the Railroad Company, the services of flagmen or watchmen are necessary for the protection of the Railroad Company's facilities by reason of the Contractor's operations, the Railroad Company will furnish such flagmen or watchmen as may be required and the State will reimburse the Railroad Company for the cost thereof, as hereinbefore specified under "Flagging Costs to Railroad Company." The Contractor shall notify the Railroad Company a sufficient time in advance whenever he is about to perform work adjacent to the tracks to enable the Railroad Company to provide flagging or other protective service.

No act of the Railroad Company in supervising or approving any work hereunder shall reduce or in any way affect the liability of the Contractor for damages, expense or cost which may result to the Railroad Company from the construction of this project.

INSURANCE POLICIES

The Contractor shall protect the Railroad Company and any other railroad company occupying or using the Railroad Company's rights of way or lines of railroad against all loss and damages arising from activities of the Contractor or his forces or any of his subcontractors or agents.

The Contractor shall furnish four separate Railroad Protective Liability Insurance Policies, naming the respective company or companies listed below as the insured and providing for the protection of the company or companies in the manner and form described in the "Railroad Protective Liability Form" as set forth in the attachment to these special provisions:

1. O-W. R. & N. Co. and its lessee U.P. R.R. Co. main line crossing.
2. P.C. R.R. Co. main line crossing.
3. N.P. Rlwy. Co. main line crossing.
4. O-W. R. & N. Co. and its lessee U.P. R.R. Co., N.P. Rlwy. Co., C.M. St.P. & P. R.R. Co. and G.N. Rlwy. Co. spur line crossing adjacent to East Marginal Way.

The Contractor shall furnish the original and 3 certified copies of each of the first 3 above listed policies and the original and 6 certified copies of the fourth policy.

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Said insurance shall be executed by a corporation qualified to write insurance in the State of Washington in form and substance satisfactory to the Railroad Company and shall be delivered to the Engineer. The Engineer will submit the insurance to the Railroad Company for its approval and the Contractor shall not enter upon or use the Railroad Company's property until he has been notified by the Engineer of the Railroad Company's approval. The various blank sections of the "Railroad Protective Liability Form," a sample of which is contained in these special provisions, shall be completed in the following manner:

Item 1: Insert the following:

(For O-W.R. & N & Lessee U.P. Policy)
Oregon-Washington Railroad & Navigation Company and its lessee
Union Pacific Railroad Company.

Address: 836 Pittock Block, Portland, Oregon

(For P.C. Policy)
Pacific Coast Railroad Company and any other railroad company using
the property of said Railroad Company with its permission.

Address: King Street Station, Seattle, Washington

(For N.P. Policy)
Northern Pacific Railway Company and any other railroad company
using the property of said Railway Company with its permission.

Address: 176 East 54th Street, St. Paul, Minnesota

(For the Joint Policy)
Oregon-Washington Railroad & Navigation Company and its lessee Union
Pacific Railway Company; Northern Pacific Railway Company; Chicago,
Milwaukee, St. Paul and Pacific Railroad Company; Great Northern
Railway Company.

Address: 836 Pittock Block, Portland, Oregon

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- Item 3: The limits of the insurance company's liability under this policy to the insured shall be not less than \$250,000.00 for all damages arising out of bodily injuries to or death of one person, and, subject to that limit for each person, a total of \$500,000.00 for all damages arising out of bodily injuries to or death of two or more persons in any one accident and not less than \$250,000.00 for all damages arising out of injury to or destruction of property in any one accident, and subject to that limit for any one accident, a total limit of \$500,000.00 for all damages arising out of injuries to or destruction of property during the policy period.

These limits shall be inserted in the appropriate blanks.

- Item 6: Designation of the Job Site and Description of Work:

(For O-W.R. & N. & Lessee U.P. Policy)

All work and operations involved in, relating, pertaining or incidental to the improvement of Primary State Highway No. 1 (Sign Route No. 5), under contract (enter contract no.), between the parties designated under items 4 and 5, and the construction of a 66 inch diameter storm sewer across the right of way and beneath the tracks of the Railroad Company at Railroad Station 103+56.9 in Sections 21 & 28, Township 24 North, Range 4 East W.M. in Seattle, King County, Washington.

(For P.C. Policy)

All work and operations involved in, relating, pertaining or incidental to the improvement of Primary State Highway No. 1 (Sign Route No. 5), under contract (enter contract no.), between the parties designated under items 4 and 5, and the construction of a 66 inch diameter storm sewer across the right of way and beneath the tracks of the Railroad Company at Railroad Station 216+04.17 in Sections 21 & 28, Township 24 North, Range 4 East W.M. in Seattle, King County, Washington.

(For N.P. Policy)

All work and operations involved in, relating, pertaining or incidental to the improvement of Primary State Highway No. 1 (Sign Route No. 5), under contract (enter contract no.), between the parties designated under items 4 and 5, and the construction of a 66 inch diameter storm sewer across the right of way and beneath the tracks of the Railroad Company at Railroad Station 1411+06.47 in Sections 21 & 28, Township 24 North, Range 4 East W.M. in Seattle, King County, Washington.

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(For the Joint Policy)

All work and operations involved in, relating, pertaining or incidental to the improvement of Primary State Highway No. 1 (Sign Route No. 5) under contract (enter contract no.), between the parties designated under items 4 and 5, and the construction of a 66 inch diameter storm sewer across the right of way and beneath the track of the Railroad Companies at Railroad Station 142+76.73 on the East Marginal Way lead track in Section 29, Township 24 North, Range 4 East, W.M. in Seattle, King County, Washington.

All other blanks are self-explanatory.

All insurance specified shall be carried until all work to be performed under this project is satisfactorily completed as evidenced by the formal date of completion reported to the Contractor by the State.

CONSTRUCTION PLANS FOR RAILROAD APPROVAL

The Contractor shall submit for approval, 30 days prior to his intended date of operations in the area, plans depicting in detail his method of installing the steel pipe across the railroad corridors, or right of way. Six sets of prints of these plans shall be submitted through the Project Engineer to the Director of Highways. Four of these sets shall be sent to the Railroad Company for approval, and such approval shall be given by the Railroad Company to the Director of Highways. The Director of Highways shall retain one of the two remaining sets and return the other to the Contractor either approved or with corrections marked thereon. Prints returned for correction shall be resubmitted and shall be approved by the Director of Highways before construction across the railroad corridor, or right of way is undertaken. After the plans have been approved, the Contractor shall furnish the number of additional sets of prints required by the Director of Highways.

OTHER CONTRACTS OR OTHER WORK

Referring to the 2nd paragraph of section 8.03 of the standard specifications, "Unavoidable Delays," it is anticipated that the following work adjacent to or within the limits of this project will be performed by others during the life of this project:

A contract for grading and draining the Seattle Freeway and attendant ramps, or approaches, north and south of the end point of this project.

A contract for paving the Seattle Freeway and attendant ramps, or approaches north and south of the end point of this project.

A contract for signing the Seattle Freeway adjacent to end of this project.

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FAILURE TO COMPLETE WORK ON TIME*

Section 8.04 of the standard specifications is hereby deleted in its entirety and the following substituted therefor:

Time for completion of the work as provided by the contract is admitted to have been sufficiently advanced to allow resulting benefit to the Contractor from earlier completion of the work. Time is an essential element of the contract and it is important that the work be pursued vigorously to completion. The cost to the State of Washington of the administration of the contract, including engineering, inspection, and supervision, will be increased as the time occupied in performing the work is lengthened. It is mutually agreed by the parties to the contract that these additional costs represent liquidated damages to the State and that they are reasonably represented and identified in the schedule of liquidated damages listed below.

The Contractor does hereby authorize and direct the Director of Highways to deduct such sums per calendar day or per working day, as may be set forth in the special provisions, as listed in the following table as liquidated damages from the amount due or to become due the Contractor for each day that may elapse after the established date for completion and before the completion of all work required by the contract:

| <u>Original Contract Amount</u> | | <u>Liquidated Damages</u> | |
|---------------------------------|-------------------------|---------------------------|---------------------|
| <u>From More Than</u> | <u>To And Including</u> | <u>Per Calendar Day</u> | <u>Per Work Day</u> |
| \$ 0 | \$ 25,000 | \$ 30 | \$ 42 |
| 25,000 | 50,000 | 50 | 70 |
| 50,000 | 100,000 | 75 | 105 |
| 100,000 | 500,000 | 100 | 140 |
| 500,000 | 1,000,000 | 150 | 210 |
| 1,000,000 | 2,000,000 | 200 | 280 |
| 2,000,000 and more | | 300 | 420 |

Liquidated damages will not be assessed the Contractor for any days for which an extension of time will have been granted. The Contractor further agrees that any such deduction or payment shall not in any degree release the Contractor from further obligations and liabilities in respect to the fulfillment of the entire contract.

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PAYMENTS AND RETAINED PERCENTAGES

The 2nd paragraph of section 9.05 of the standard specifications is hereby superseded by the following:

Partial payments under the contract will be made at the request of the Contractor once each month, based upon partial estimates to be made by the Engineer, as hereinafter specified; provided, that in accordance with the provisions of Chapter 238, Laws of 1963, there will be reserved and retained from the monies earned by the Contractor as determined by such estimates during the progress of the work performed under the contract, a sum equal to 10% of such estimates.

ORDER OF WORK

Construction of the South Albro Storm Sewer Outfall shall begin at the outfall structure in Slip 4 and proceed north and east along the outfall alignment to the east terminus at South Graham Street on the Freeway Corridor.

TRAFFIC

Traffic shall be maintained on all rail or vehicular routes or arteries crossed by the South Albro Storm Sewer Outfall. The northbound curb lane only of East Marginal Way South between Ellis Avenue South and the sewer crossing of East Marginal Way may be closed temporarily to traffic for equipment occupancy only during the placing of the sewer within those limits, as the Engineer may direct. Similarly the curb lanes of Ellis Avenue South and South Hardy Street may be temporarily closed during construction of the sewer along Ellis Avenue and South Hardy Street.

Work which requires encroachment into roadway areas must be expedited as much as possible, including multishifts where additional shifts will further progress.

Ellis Avenue South, South Willow Street and South Myrtle Street Access Roadways.
The Contractor shall maintain the full roadway width for traffic between the hours of 6:30 to 8:30 A.M. and 3:30 to 5:30 P.M., and a minimum of one lane in each direction at all other times.

East Marginal Way South.

The Contractor shall maintain full width of the roadway for traffic whenever work is not in progress, unless the Engineer determines that restricted widths are required because of construction conditions. During the period when the easterly lane is closed to traffic, the Contractor shall maintain the remaining lanes open for traffic between the hours of 6:30 to 8:30 A.M. and 3:30 to 5:30 P.M., and shall maintain a minimum of two lanes in each direction at all other times.

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Construction operations shall be so correlated that a minimum of trench is allowed to remain open. Alternate crossings, or routes, shall be provided and maintained by the Contractor for intersecting streets, driveways, and pedestrian crossings during the interval that construction operations disrupt the permanent crossings or access routes.

CROSSING KING COUNTY AIRPORT

The Contractor shall specifically plan and conduct his operations of crossing the King County Airport so as to accomplish the construction as expeditiously as possible with the minimum of interference to Airport activities. Equipment and materials shall not be stored on the Airport property except as the Airport Manager may permit. Construction equipment higher than 20 feet shall not be used except as the Airport Manager may specifically permit. All arrangements with the Airport Manager shall be made through the Engineer.

**CONSTRUCTION ON SOUTH ELIZABETH STREET

A thirty-foot wide corridor in South Elizabeth Street, centered on the centerline of the proposed storm sewer, will be cleared of all encroachments, including fences and storage materials, by the owner at the request of the Contractor. This request shall be submitted to the Engineer in writing 30 days prior to construction in this area to permit arrangements to be made for this work. Following the owner's clearing of this area, the Contractor shall complete his work within a minimum of time so the owner can move back on to the corridor.

GAS LINE

The existing 4 inch diameter gas line on South Elizabeth Street will be relocated by the gas company. Operations of the gas company will not delay the Contractor.

PROTECTION AND RESTORATION OF PROPERTY

The last paragraph of section 7.10 of the standard specifications is hereby deleted in its entirety and the following substituted therefor:

The Contractor shall protect and preserve from damage and destruction all property or its appurtenances, and from interference with the use of all property, on or in the vicinity of the work, the removal or destruction of which is not ordered or provided for under the contract. This applies to public utilities lawfully occupying the right of way, trees, monuments, pipes, poles, conduits, cables, wires, underground structures, culverts, bridges, fences, and property of all descriptions. Wherever such property is damaged or destroyed, it shall be immediately restored to its former condition by the Contractor or authorities having control of same, and the expense of such repairs shall be charged to the Contractor. Whenever the Contractor's operations interfere with the use of such property, such interference shall be terminated and conditions rectified upon notice from the Engineer.

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Unless otherwise provided in the contract, temporary removal or rearrangement of utilities will be the responsibility of the Contractor.

Utility facilities adjacent to or within the structure excavation limits, but not in physical conflict with the sewer as staked by the Engineer, shall be supported, braced or cribbed by the Contractor, or relocated by the Utility, as the individual circumstance may require, to assure stability of the facility during construction of the storm sewer outfall. Prior to supporting or bracing the utility facility the Contractor shall contact and coordinate his plans with the owner utility. Upon completion of the adjacent outfall line the measures installed or provided by the Contractor for the utility stability shall be removed and the utility restored to the condition existing prior to initiation of excavation operations. All costs and expense incurred by the Contractor to provide stability for utility or costs for relocation for the Contractor's convenience shall be regarded as incidental to other items or work and no separate measurement or payment will be made therefor.

Where the construction of the storm sewer outfall or appurtenances requires the adjustment, relocation, or removal of existing utility facilities because of physical conflicts with the outfall sewer, the Contractor shall immediately notify the Engineer in writing, of such a conflict and upon approval of the Engineer proceed to negotiate with the owner, utility or the authority having control of same for the necessary adjustment. The State will reimburse the Contractor on an agreed price basis or as provided under section 9.04 of the standard specifications, "Force Account Work."

Any loss of time suffered by the Contractor, due to delay in removal of such utility, will be adjusted in accordance with section 8.03 of the standard specifications, "Unavoidable Delays"; however, this shall not be the basis for claim for additional compensation.

11.1 The State does not guarantee the removal or relocation, either temporarily or permanently, of any utility or utilities, to accommodate the Contractor's equipment or method of operation. The Contractor shall make his own arrangements at his own expense for any such removal or relocation, however, if necessary, the State will assist the Contractor in his negotiations with any such utility.

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WATER FROM HYDRANTS

The Contractor shall not draw water from any hydrant until the required permit has been secured.

Only tools approved by the Water Department shall be used to operate the hydrants and each hydrant to be used by the Contractor shall be inspected by the Water Department for proper operation before the Contractor uses it. No charge will be made for this first inspection. Upon completion of the work, all hydrants used by the Contractor during the contract work shall be reported to the Water Department by the Engineer and each shall be reinspected. This later inspection will be charged to the Contractor. The Water Department will repair any damage discovered and will charge the Contractor the cost of such repairs.

Hydrants are designed for operation with the main hydrant valve in the full "open" position. The main hydrant valve shall not be used to throttle or regulate the rate of flow. Before obtaining water for construction purposes from hydrants, the Contractor shall install an auxiliary slow-acting gate valve on the hydrant outlet port to be used. This valve shall be tightly closed until the hydrant is opened completely. Water flow from the hydrant shall be regulated by this auxiliary valve. When shutting down the hydrant, the auxiliary valve shall be closed tightly before closing the hydrant valve.

The rates for use of water other than measured by meters, shall be known as "Flat rates" and shall be paid for as stipulated by the City of Seattle Water Department.

Water used for all other purposes not herein enumerated shall be furnished and charged for either at meter rates or a special rate to be fixed by the Superintendent of Water.

PROVISIONS FOR WATER COURSES

The Contractor shall provide for the flow of all water courses, sewers, or drains intercepted during the progress of the work, and shall replace the same in as good a condition as he found them or shall make such final provisions for them as the Engineer may direct.

The Contractor shall not obstruct the gutter of any street, but shall use all proper measure to provide for the free passage of surface water.

The Contractor shall make provisions to take care of all surplus water, mud, silt, slickings, or other runoff pumped from excavations or resulting from dewatering, sluicing or other operations, and shall be responsible for any damage, of whatever nature, resulting from his failure to so provide. Any catch basin clogged by the Contractor's operations shall be cleaned by the City at the Contractor's expense.

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STREET AND SIDEWALK CLEANING

The Contractor shall clean all streets and appurtenances including sidewalks within or adjacent to the project which are open for public use, of all material or debris which is dropped or otherwise deposited on the streets as a result of the Contractor's operations. Streets and appurtenances including sidewalks shall be cleaned at the conclusion of each day's operations and at such other times as deemed necessary by the Engineer to insure the safety of the traveling public and to prevent inconvenience to the public and owners of private property adjacent to the project.

In addition, the Contractor shall use water for dust control on paved, surfaced, or unimproved streets or roadways used between excavation sites and disposal sites, as may be required to prevent inconvenience to the traveling public and owners of private property adjacent to the haul routes. The cost of the water shall be considered as incidental to the various other bid items on this project. If the streets and appurtenances are not properly cleaned as determined by the Engineer and the condition of the excavation warrants, the Engineer shall direct the Contractor to provide facilities to remove clay or other deposits from tires or between dual wheels or outside of truck beds before trucks and other equipment will be allowed to travel over paved streets.

Any violation of the above requirements shall be sufficient grounds for the Engineer to order the streets and appurtenances, including sidewalks in question, cleaned or sprinkled by others and to deduct all costs of such cleaning or sprinkling from any monies due or to become due, to the Contractor.

PRESERVATION OF MONUMENTS

The Contractor shall not disturb any monuments of hubs found on the line of the improvement until ordered to do so by the Engineer. A penalty of \$25.00 will be imposed for each monument or hub disturbed without such orders.

WORKING HOURS AND DAYS

The Contractor shall work a sufficient number of hours per day and days per week as are necessary to complete the work in the time specified. Permission for overtime work may be obtained from the City of Seattle.

If the Contractor finds it necessary to work extra shifts or to work on holidays or Sundays, in order to complete the project within the time specified for completion, he shall file a written application through the Project Engineer, to work the additional hours and days he desires with said Board of Public Works. No such application will be considered by the Board unless it shall have first received the endorsement of the Director of Highways.

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The Board of Public Works, if such application is found reasonable and proper, will grant such application by permit. Neglect of the Contractor to request from said Board permission to work during hours and days beyond the limits of those established by the City Charter as may be necessary to complete the project by the specified date of completion, shall not affect the assessment of liquidated damages for failure to complete the project on time.

All costs to the Contractor for any expense as a result of working extra hours per day or days per week, shall be considered incidental to the costs of the various pay items of work included in this project and no further compensation will be made.

SITE PREPARATION AND RESTORATION

Shrubbery and turf along Ellis Avenue South and pavements that are within areas to be excavated shall be removed by the Contractor to permit excavation for, and installation of the storm sewer outfall. Existing timber piling within the area to be occupied by the outfall line and structure shall be pulled or removed to the ground line. Upon completion of backfilling operations, shrubbery and turf along Ellis Avenue South, surface pavements, roadways, or parking areas shall be restored in kind, thickness and area to match and connect to that removed. Shrubbery removed shall be stored and maintained in accordance with the best horticultural practices and replaced after construction. Turf shall be restored or shall be replaced by new top soil and seeding equivalent to the existing turf. All costs incurred for removal and replacement of shrubbery, removal and restoration of turf, and removal of existing piling shall be regarded as incidental to other items of work and no separate measurement or payment will be made therefor.

Paved surfaces of sidewalks, roadways, curbs and parking lots shall be removed to the limits of structure excavation, or to an adjacent joint, or edge, as the Engineer may determine. Removal shall be in accordance with section 32-3.01C and/or section 33-3.17 of the standard specifications, except that there shall be no classification, for removal purposes, as to type or thickness. Removed pavement shall become the property of the Contractor and be taken from the site and disposed of by him. Field measurement will be made of the area of all pavement removed within the excavation limits, or to the lines established by the Engineer, and payment made at the unit contract price per square yard for "Removing Paved Surfaces" which price will be full compensation for removing the pavement of whatever thickness and type encountered and disposing of the removed materials.

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Asphalt concrete pavement class B shall be used to restore areas of asphalt or bituminous pavements that were removed to permit installation of the storm sewer. Prior to placement of pavement the previously compacted subgrade shall receive a 6 inch base course of crushed surfacing in accordance with section 24 of the standard specifications or be paved with cement concrete pavement as shown in detail on the plans.

Upon completion of the base course, asphalt concrete pavement class B shall be furnished and placed in accordance with section 32 of the standard specifications. Measurement and payment will be made for "Asphalt Concrete Pavement Class B" per ton, and "Crushed Surfacing Base Course" per cubic yard or "Cement Concrete Pavement 14 Day 6 Sack Mix 0.75 Ft. Section" per square yard.

All costs incurred for the preparation of untreated roadway, tack coat and/or prime coat shall be considered as incidental to the cost of "Asphalt Concrete Pavement Class B" and no separate payment will be made.

Cement concrete pavement 14 day 6 sack mix 0.75 ft. section shall be used to replace cement concrete pavement removed to facilitate the construction of the storm sewer. Cement concrete pavement shall be furnished and placed in accordance with the applicable provisions of section 33 of the standard specifications.

Measurement and payment will be in accordance with section 33-5 of the standard specifications for "Cement Concrete Pavement 14 Day 6 Sack Mix 0.75 Ft. Section."

Cement concrete pavement used as a base for bituminous pavements may be unfinished, as the Engineer may direct.

Integral cement concrete curb type No. SE-21C shall be used to restore curbs removed to facilitate the construction of the storm sewer. Construction and installation shall be in accordance with standard plan SE-21 and the applicable provisions of section 35 of the standard specifications. Section 35 of the standard specifications shall be amended by the addition of "Integral Cement Concrete Curb Type No. SE-21C."

Payment will be made at the unit contract price per linear foot for "Integral Cement Concrete Curb Type No. SE-21C," which price will be full compensation for furnishing all labor, materials, and equipment required to install integral cement concrete curb type No. SE-21C.

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SOURCE OF MATERIALS

- ** No source has been provided for top soil, gravel backfill for pipe bedding, selected backfill material, crushed surfacing base course, asphalt concrete aggregates, or concrete aggregates. The Contractor shall make his own arrangements to obtain these materials at his own expense and all costs of acquiring, producing and placing will be considered incidental to the unit bid items involved.

PITS AND/OR QUARRIES FURNISHED BY CONTRACTOR*

The source shall be so selected that after the materials have been removed, the pit will drain to a natural drainage course and no excavation shall be made to a greater depth than the water in such natural drainage course when the water is at a normal elevation.

Should the source selected by the Contractor by one which would not drain as outlined herein, permission shall be obtained by the Contractor from the governing body of the city or county for the removal of the materials from such pit or quarry. Following the removal of materials, the entire area shall be cleared of all rubbish, temporary structures and equipment, and the Contractor shall secure a release from the permitter which states that the pit has been left in a condition satisfactory to the permitter.

The aforementioned special provision does not apply to pits being operated commercially.

HAULING ON OTHER THAN STATE HIGHWAYS

If the sources of materials provided by the Contractor require hauling over roads other than State Highways, the Contractor shall, at his own cost and expense, make all arrangements for the use of the haul routes.

The Contractor shall make all arrangements with the City of Seattle for the use of city streets in the hauling of waste, materials and debris.

The Contractor shall coordinate his hauling operations and his haul routes with the other contractors and shall alter his haul routes when they interfere with construction on the other projects.

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WASTE SITE*

Whenever the special provisions require the disposal of debris or other materials by the Contractor and no waste site is provided under the contract, the Contractor shall make his own arrangements at his own expense for the disposal of these waste materials and shall protect the State from any and all damages arising therefrom.

GRAVEL BACKFILL FOR PIPE BEDDING

Gravel backfill for pipe bedding shall meet the requirements of section 22-2 of **the standard specifications for gravel base class B except that the maximum particle size is hereby limited to 3/4 inch.

Gravel backfill for pipe bedding shall be constructed as specified in section 21-3 of the standard specifications for backfill for foundations.

Gravel backfill for pipe bedding will be measured by volume in trucks at the point of unloading, or by the ton in trucks in accordance with the unit shown in the bid proposal.

The unit contract price per ton or per cubic yard for "Gravel Backfill for Pipe Bedding" shall be full compensation for furnishing all labor, materials, tools and equipment and for all other costs and expenses necessary or incidental to loading, hauling and placing of gravel backfill for pipe bedding as specified above. No additional compensation will be made for haul.

SELECTED BACKFILL MATERIAL

Where shown on the plans, or where directed by the Engineer, the Contractor shall furnish, place and compact selected backfill material as specified in these special provisions.

Material

Selected backfill material shall be selected material which compacts to a dry density over 105 pounds per cubic foot and which has optimum moisture content of less than 20% when tested in accordance with the requirements of section 11-3.13E5 of the standard specifications. The plasticity index (ASTM Designation D424) shall not be over 10. Contamination protection in accordance with section 45-3.08 of the standard specifications shall apply.

Placing and Compacting

Selected backfill material that must support roadway embankment or which is a part of any roadbed embankment shall be placed in layers and compacted in accordance with section 11-3.13E4 of the standard specifications, except as modified herein, to at least 95 percent of the maximum density as determined by the "Compaction Control Test". All other selected backfill material shall be compacted to at least 90 percent of the maximum density.

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Measurement and Payment

- ** Backfill material required to backfill where structure excavation is involved, shall be included in the unit contract prices per cubic yard for "Structure Excavation" and per hour for "Mechanical Tamper" in accordance with section 45 of the standard specifications, except that section 45-3.09 of the standard specifications shall be modified to provide that if the excavated material is of a quality unacceptable to the Engineer for backfill purposes the Contractor shall furnish material meeting the requirements as herein specified and payment therefore will be made at the unit contract price per cubic yard for "Furnishing, Placing and Compacting Selected Backfill Material". Measurement for selected backfill material to be so used shall be to the neat line volume in place within the pay limits of structure excavation only. When payment is made for "Furnishing, Placing, and Compacting Selected Backfill Material" no payment will be made for "Mechanical Tamper".

Water used for compaction of backfill material will be regarded as incidental to other items of work and no special measurement will be made.

STRUCTURE EXCAVATION

Structure excavation shall conform to the requirements of section 45 of the standard specifications except as herein modified.

It is anticipated that State-owned equipment will be available for the tests specified in section 45-3.07. Any additional equipment required shall be furnished by the Contractor on a force account basis.

Excavation for Trenches

The horizontal limits of "Structure Excavation" as shown on the plans shall be considered maximum for trench width along public traveled ways.

Excavation for Structures

Excavation slopes shall be protected from excessive moisture by sheathing or other cover. Costs for such protection shall be considered incidental to the various unit bid items involved.

Shoring and Sheet piling for Excavations

Shoring and/or sheet piling shall be designed by the Contractor for the soil pressures and conditions existent at the various excavation sites and plans therefor shall be submitted for approval in the manner described in section 45-3.05 of the standard specifications and shall meet the requirements of the Department of Labor and Industries.

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KCSlip4 37039

SEA403584

Footing Elevation

The footing elevations for structures have been established in accordance with the best available information on sub-surface soil conditions. Footing elevations are subject to change depending upon the actual conditions encountered, and reinforcing steel for footings shall not be fabricated until final footing elevations have been determined by the Engineer in the field.

Area to be Dredged South of Outfall Structure

To provide an unobstructed flow of storm waters, an area south of the outfall structure, as shown on the plans, shall be dredged to elev. -8.3. Side slopes of this dredged area shall be at 1 vertical to two horizontal. The material removed within the area shown, above elevation -8.3, and within the side slopes specified shall be measured by the Engineer and classified for payment purposes as "Structure Excavation".

Disposal of Excavated Material

Section 45-3.08 of the standard specifications, "Disposal of Excavated Material," shall be supplemented by the following paragraph:

Where material obtained from the structure excavation is declared unsuitable for backfill by the Engineer because of its natural properties, or where an excess of backfill material exists, the unsuitable material, and/or, excess material shall be removed from the site and disposed of by the Contractor. All costs resulting from disposing of the unsuitable material including haul shall be considered as incidental to the unit contract price for "Structure Excavation," and no additional compensation will be made.

Measurement and Payment

Measurement for structure excavation shall conform to the requirements of section 45 of the standard specifications and the pay limits shown on the plans. No separate payment will be made for shoring and cribs.

PLACING CONCRETE*

The 2nd sentence of the 18th paragraph of section 47-3.08A of the standard specifications appearing on page 310 is hereby changed to read:

In no case shall concrete be used which does not reach its final position in the forms within 1-1/2 hours after the time that water was first added to the mix.

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METAL DRAIN PIPE AND METAL CULVERT PIPE*

Metal drain pipe and metal culvert pipe shall meet the requirements of section 63 and section 64, respectively, of the standard specifications except that resistance spot welding may be used instead of riveting, subject to the following:

Spot welds shall be made in such a manner that the metal is drawn tightly together throughout the lap. The center of the spot weld shall be at least 2 times its diameter from the edges of the metal. The spot welds may be located in either the valley or the crest of the corrugations. Longitudinal seams of spot welded pipe, 42 inches or more in diameter, shall be double welded or a single weld placed at both the valley and the crest of corrugations. Circumferential seams shall have a maximum spot weld spacing of 6 inches, except that 6 spot welds will be sufficient for a 12-inch diameter pipe.

The welding shall be performed in such a manner that the base metal will not be exposed when the area adjacent to the weld is wire brushed.

Resistance spot welding machines and operators shall be qualified by tests specified herein, before the machines and operators are allowed to perform welding on corrugated metal pipe. All tests will be witnessed by the Engineer. Machines and operators previously qualified by these tests may be exempt from further qualification with the approval of the Engineer. However, tension shear tests as outlined hereinafter will be required on all projects.

The tests, preparation of specimens, and test procedures shall be as follows:

The welding machine will be qualified by forming and spot welding one section of 16 gage pipe, 24 inch diameter and 36 inches long, and one section of 8 gage pipe 30 inch diameter and 36 inches long. The length of each formed section making up the 36 inch length shall be 12 inches so that 2 circumferential welded joints will be represented in the test sample.

Each test section shall be compressed in 3 edge bearing, using equipment and procedure for load application as described in AASHTO Designation T 33 for the 3 edge bearing test. The load application shall be continued until the top and bottom of the test section are in contact. There shall be no failure in the welds at this point.

Two specimens shall be cut from the flattened pipe section for longitudinal seam bend tests. The test shall be performed by supporting the specimen as a simple beam and applying a load at the center in such a manner that the specimen will be bent about the longitudinal seam as an axis. The welded seam shall withstand a bend of 45° without failure in the welds.

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Three tension shear tests representing each gage of metal to be used in the manufacture of the pipe will be performed. Test specimens shall be prepared by lapping 2 strips of corrugated culvert sheet 1-1/2 inches by 5 inches and joining them together by a single spot weld duplicating the size to be used in production. The length of lap shall be 1-1/2 inches. The longer axis of the specimen shall be parallel to the direction of rolling.

The specimens shall be submitted to the Engineer for testing in tension to destruction in a standard calibrated test machine. The minimum shear test in pounds, as determined by this test, shall be not less than that shown in the following table for the gage of metal used in the test.

| Thickness of Corrugated Sheet | | Minimum Shear Strength |
|-------------------------------|--------|------------------------|
| Gage | Inches | Pounds |
| 16 | 0.065 | 4,000 |
| 14 | 0.083 | 5,000 |
| 12 | 0.109 | 7,000 |
| 10 | 0.134 | 8,000 |
| 8 | 0.165 | 10,000 |

Three tension shear tests will be made at the start of each work shift. Three tension shear tests will be made for each change in sheet gage.

One copy of the approved machine setting shall be posted on the machine for use by the machine operator. No other settings may be varied, except weld phase shift and pressure which may be varied by 10% plus or minus. If the approved machine settings fail to produce quality welding within these limits, fabrication shall be stopped until the cause of the trouble is corrected.

Workmanship and finish shall conform to the requirements of section 18 of AASHO Designation M 36, and in addition thereto, at least 95% of the required weld area shall be completely fused.

****ALTERNATE CONSTRUCTION MANHOLE 2 TO MANHOLE 13**

The Contractor will be allowed the option of furnishing and placing class IV rubber gasketed reinforced concrete sewer pipe 66" diameter instead of the Type 5 metal sewer pipe 10 gage 66" diameter shown on the plans. Payment therefor will, however, be at the unit bid price for "Type 5 Metal Sewer Pipe 10 Gage 66 Inch Diameter", as shown on the plans and proposal. All contiguous pipe shall be of the same kind.

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SEWERS

The 1st paragraph of section 67-4 of the standard specifications, "MEASUREMENT," is hereby deleted and the following substituted therefor:

The length of sewer pipe will be the number of linear feet of completed installation measured along the invert and will include the length through elbows, tees and fittings. The number of linear feet will be measured from the center of manhole to center of manhole or to the inside face of catch basins and similar type structures.

Class II rubber gasketed reinforced concrete sewer pipe, 36 inch diameter, shall be tested in accordance with section 67-3.04 of the standard specifications. All other pipe specified for this contract will not be tested as required by this section.

The Contractor will be required to utilize the necessary workmanship, construction methods, and materials, necessary to achieve as nearly a water tight installation as possible on all other pipe. Failure to do so will be considered a cause for rejection and the item must be repaired or replaced.

Type 5 metal sewer pipe shall have bands, as shown on the plans, be fabricated round and need not be strutted for installation.

**** Section 64-2.01B⁴** of the standard specifications "Marking Elliptical Reinforcement" is amended as follows:

The 1st sentence is hereby revised to provide that the 3-inch wide painted stripes are only required for a distance of 2 feet from each end of the section.

The following paragraph is hereby added:

In addition to the requirements as set forth in AASHO Designation M 170, it will be required on all pipe 30 inches and over in diameter with elliptical steel reinforcement that the manufacturer expose the reinforcement in not less than one of every 3 lengths of pipe manufactured. A hole exposing the steel shall be cut on the inside of the pipe at "Top" or "Bottom" and a second hole on the outside, 90 degrees from the "Top" or "Bottom" position.

CASTINGS

Iron castings used on this project shall conform to the provisions of section 53 of the standard specifications except that section 53-2.02 shall be supplemented by the following:

All castings which are detailed on standard plans bearing an SE designation shall be ASTM-A-48, Class 30. All other castings shall be ASTM-A-48, Class 40.

MANHOLES

Where shown on the plans or where designated by the Engineer, the Contractor shall construct manholes in accordance with section 68 of the standard specifications, standard plan SE-29, and details as shown on the plans for manholes types A, B, C, D and E.

Standard plan SE-29C shall be modified to show SE-38 cast iron locking ring and cover instead of SE-30 ring and cover. Cast iron locking rings and covers type No. SE-37 shall be used on manholes types A, B, C, D and E.

The "2 inch min." distance shown on the manhole elevation for type No. SE-29C between the top of the pipe and the bottom of the "Precast 8 Inch Top Slab B" shall be changed to a 12 inch minimum.

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The "Maximum 11'-0" height" shown on the manhole elevation for Type No. SE-29C between the bottom of the pipe and the top of the manhole shall be changed to "maximum 15'-0" height".

Measurement for determination of height shall be the distance in linear feet from the top inside elevation of the lowest inlet pipe to the bottom of the cast iron ring.

The standard plans shall be modified to show the applicable manhole bid items and section 68-5 of the standard specifications shall be supplemented by the following bid items:

"Manhole Type A under 12 feet"
"Manhole Type B under 12 feet"
"Manhole Type C under 12 feet"
"Manhole Type D under 12 feet"
"Manhole Type E under 12 feet"
"Manhole Type SE-29 under 12 feet"
and "Gravel Backfill for Pipe Bedding"

On all SE standard manholes, the depth of the brick leveling course shall be 8 inches minimum to 12 inches maximum. Where directed by the Engineer, the Contractor shall place a 4 inch bed of "Gravel Backfill for Pipe Bedding" under the manholes. Covers for manholes on this project shall be cast with the word "DRAIN".

** The dimensions shown on sheets 8 through 11 of the plans, "Manhole Details," are for type 5 metal sewer pipe and welded steel pipe. Should the Contractor elect to furnish and place class IV rubber gasketed sewer pipe in lieu of the Type 5 metal sewer pipe between Manholes 2 and 13, as provided in the special provisions, he shall submit a revised design for the affected manholes for approval including 6 sets of complete plans prepared in accordance with section 5.03 of the standard specifications together with supporting calculations. After all corrections and changes required by the Engineer for have been accomplished, an original tracing or acceptable equal shall be furnished by the Contractor to the Engineer. Work shall not be performed on the manholes until approval of the design has been given by the Engineer.

The unit contract prices for the various types of manholes involved, shall be full compensation for all work necessary to construct the manholes as specified herein, including all costs involved in the construction of the special details shown on the plans and described in these special provisions and in the standard specifications.

TIMBER, LUMBER AND TIMBER PILING

All timber, lumber and timber piling used on this project shall be Douglas Fir treated by the full cell process to retain not less than 10 pounds of creosote oil per cubic foot of timber. Materials, workmanship, treatment and measurement and payment shall be in accordance with the applicable provisions of sections 43; 46, 54, and 55 of the standard specifications.

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WELDED STEEL PIPE, FURNISHING AND JACKING

Welded steel pipe 5/8 inch plate 66 inch diameter, shall be jacked under Airport Way and the adjacent railroad corridor between manholes 11 and 12 and under East Marginal Way between manholes 1 and 2. Segments of steel pipe shall be shop fabricated, lined and coated as specified, brought to the sites as needed and field welded to adjacent pipe sections. Steel pipe shall conform to the requirements of ASTM Designation A-36, fabrication shall be in accordance with section 52 of the standard specifications; inner lining shall be coal tar enamel in accordance with AWWA Standard C-203-62 and exterior coating shall be coal tar and varnish. Transverse field seams shall be lined in the field after welding. Pipe coatings or inner linings which are damaged during construction shall be repaired by the Contractor to the satisfaction of the Engineer.

Installation between manholes indicated above shall be by jacking only, except that jacking pits may extend to within 12 feet of roadways or 15 feet from center line of railroad tracks. Roadways or rail tracks between jacking pits shall not be utilized by the Contractor as working areas for the storage of equipment. The Contractor shall submit for approval of the Engineer and the railroad companies as stipulated under CONSTRUCTION PLANS FOR RAILROAD APPROVAL plans showing the arrangement and location of jacking pits and jacking equipment, as specified for falsework in section 41 of the standard specifications.

The excavation operation inside the pipe shall proceed approximately one foot ahead of the pipe. The jacking operation shall be continuous until the pipe has been jacked to its final location except for sufficient time to place additional pipe sections in the jacking frame and to prepare each pipe joint. At approximately 4 foot centers along the pipe there shall be provided 2 inch grout nipples closed with a pipe plug. After grouting, the nipples shall be painted with a bituminous mastic. The pipe shall be oriented so that the nipples are in the upper one-third of the crown. Upon completion of jacking operations, a neat Portland cement grout shall be pumped to refusal, at 5 psi, into each grout nipple.

Measurement of welded steel pipe will be from end to end of the installed pipe sections. Payment will be made at the unit contract price per linear foot for "Welded Steel Pipe 5/8 inch Plate 66 inch Diameter Furnishing and Jacking" which price will be full compensation for all labor, materials, and equipment required to furnish and install the welded steel pipe between the specified termini. There will be no separate measurement or payment for excavation, or soil removal, in areas occupied by the steel pipe between the adjacent faces of manhole footings.

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OUTFALL STRUCTURE AND MANHOLE TYPE A

The outfall structure and attendant manhole type A shall be constructed as a unit within an enclosed cofferdam by utilizing a seal of class H concrete around previously driven foundation piling. Cofferdam piling or sheathing shall extend initially to elevation -16.0 and elevation +6.0. In the event the cofferdam and outfall structure is to be used as a jacking pit for placement of the welded steel 66 inch diameter pipe, the Contractor shall make provisions therefor in his cofferdam design and submit plans for approval in accordance with section 45-3.05 of the standard specifications. Removal of cofferdams shall be limited to that portion extending above the top elevation of the concrete seal. Construction for the outfall structure and manhole type A shall be accomplished in accordance with the applicable paragraphs of the standard specifications for structure excavation, driving timber piles creosote treated, furnishing timber piling creosote treated, concrete class H, concrete class AX, steel reinforcing bars, timber and lumber creosote treated, heavy loose riprap, class IV reinforced concrete sewer pipe, and manholes.

**A 72 inch diameter flat back flap gate with all attendant hardware shall be furnished and installed on the outfall header as shown on the plans. The flap gate shall be Armco Model 20C, or equal, with cast iron links which have permanently lubricated bronze bearings.

Measurement of quantities for the construction of the outfall structure and manhole type A shall be in accordance with the standard specifications except that measurement of concrete class H shall be to the neat line plan dimensions as shown for the seal. Payment will be made at the unit contract prices for the following items and units:

"Structure Excavation," per cubic yard.

"Mechanical Tamper," per hour.

"Furnishing, Placing and Compacting Selected Backfill Material," per cubic yard.

"Furnishing Timber Piling Creosote Treated," per linear foot.

"Driving Timber Piles Creosote Treated," per each.

"Concrete Class H," per cubic yard.

"Concrete Class AX," per cubic yard.

"Steel Reinforcing Bars," per pound.

"Timber and Lumber Creosote Treated," per MBM.

"Heavy Loose Riprap," per ton.

"Manhole Type A under 12 Feet," per each.

** "Class IV Reinforced Concrete Sewer Pipe 72 Inch Diameter," per linear foot.

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Payment for "Manhole Type A under 12 Feet", shall include costs for all items of manhole sections cast iron ring and cover, ladder rungs, reinforced concrete box or other items incidental to completion of the manhole except for the timber piles and class H concrete seal. Costs of furnishing and installing the 72 inch diameter flap gate shall be regarded as incidental to other items of work for the outfall structure and manhole type A, and no separate payment will be made therefor.

All labor, tools, equipment and materials required to construct the cofferdam shall be regarded as incidental to the construction of the outfall structure and manhole, type A and costs therefor shall be included in the various bid items involved.

30 INCH DIAMETER CAST IRON PIPE COOLING WATER LINE CROSSING

On the east side of East Marginal Way at approximate station 18+88 the storm sewer outfall line crosses an existing 30 inch diameter cast iron pipe water line. This water line supplies cooling water to the adjacent City of Seattle Steam Generating Plant and is inactive except during periods of power generation at the adjacent steam power generating plant. The Contractor shall interrupt this existing cast iron cooling water line and reconnect it across the top of the storm sewer outfall as shown in detail on the contract plans. The relocation work may be done in the period between April 1 and September 1. The plant is on a standby and/or emergency ready basis from September 1 to April 1, and cannot be shut down when it is in operation or scheduled for operation. If the relocation work must be performed between September 1 and April 1, written request for approval of the relocation schedule must be sent to the Engineer 60 days prior to the proposed work. Approval of the schedule shall be contingent on the operation of the plant and may be withdrawn at any time. All labor, materials, fittings, anchors, concrete and other items necessary to interrupt the line and reconnect it as shown on the plans, shall be supplied by the Contractor.

** The dimensions shown on sheet 11 of the plans at the top and bottom of the sewer pipe are to the outside of the barrel and shall obtain regardless of the sewer pipe that the Contractor elects to use.

The unit lump sum price for "30 Inch Diameter Cast Iron Pipe Cooling Water Line Crossing" will be full compensation for furnishing all materials, equipment, and labor necessary to sever the existing line and reconnect and anchor it as shown on the plans. There will be no separate payment for excavation, concrete, or other items.

CONSTRUCTION IDENTIFICATION SIGNS*

The Contractor on this project will not be required to furnish construction identification signs. The Contractor on the existing project will alter the existing signs as required when requested by the Engineer.

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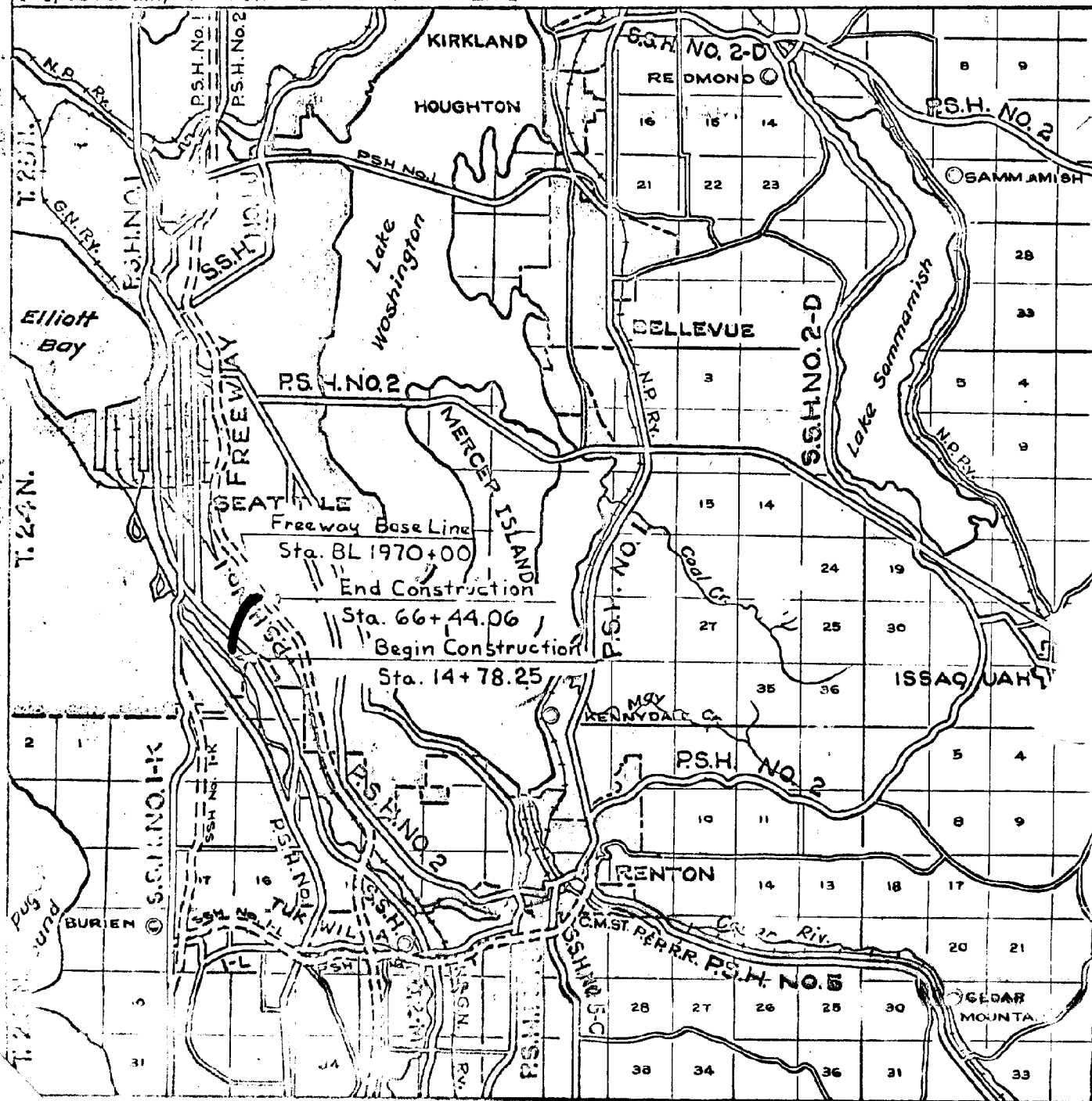
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WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

MAP OF
STATE HIGHWAYS NO'S. 1, 2, 5, 1-J, 1-K, 1-L, 2-A, 2-D, 5-C, 5-D & 2-M
KING COUNTY

Proposed Improvement Shown in Red



**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONTRACTS
INTERSTATE HIGHWAYS (ACT OF 1956)**

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I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Contract Provisions and also a clause requiring his subcontractors to include these Required Contract Provisions in any lower tier subcontracts which they may enter into, together with a clause requiring the inclusion of these provisions in any further subcontracts that may in turn be made. The Required Contract Provisions shall in no instance be incorporated by reference.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be grounds for termination of the contract.

4. A breach of the following clauses may also be grounds for debarment as provided in 29 CFR 5.6(b):

Section I, paragraph 2;
Section III, paragraphs 1, 2, 3, 5 and 8;
Section IV, paragraphs 1, 5a, 5b and 5d.

II. NONDISCRIMINATION

1. During the performance of this contract, the contractor shall not discriminate against labor from any other State, possession or territory of the United States.

2. During the performance of this contract, the contractor agrees as follows:

a. The contractor will not discriminate against any employee or applicant for employment because of race, creed, color or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

b. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color or national origin.

c. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments

under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

d. The contractor will comply with all provisions of Executive Order No. 10925 of March 6, 1961, as amended by Executive Order No. 11114 of June 22, 1963, and of the rules, regulations and relevant orders of the President's Committee on Equal Employment Opportunity created thereby.

e. The contractor will furnish all information and reports required by Executive Order No. 10925 of March 6, 1961, as amended by Executive Order No. 11114 of June 22, 1963, and by the rules, regulations and orders of the said Committee, or pursuant thereto, and will permit access to his books, records and accounts by the Bureau of Public Roads and the Committee for purposes of investigation to ascertain compliance with such rules, regulations and orders.

f. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or Federally assisted construction contracts in accordance with procedures authorized in Executive Order No. 10925 of March 6, 1961, as amended by Executive Order No. 11114 of June 22, 1963, and such other sanctions may be imposed and remedies invoked as provided in the said Executive Order or by rule, regulation or order of the President's Committee on Equal Employment Opportunity, or as otherwise provided by law.

g. The contractor will include the provisions of paragraphs 2(a) through 2(g) in every subcontract or purchase order unless exempted by rules, regulations or orders of the President's Committee on Equal Employment Opportunity issued pursuant to section 303 of Executive Order No. 10925 of March 6, 1961, as amended by Executive Order No. 11114 of June 22, 1963, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the Bureau of Public Roads may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with litigation with a subcontractor or vendor as a result of such direction by the Bureau, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

III. PAYMENT OF PREDETERMINED MINIMUM WAGES

1. General:

All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR, Part 3) the full amounts due at time of payment computed at wage rates not less than those contained in the wage determination decision of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics; and the wage determination decision shall be posted by the contractor at the site of the work in a prominent place where it can be easily seen by the workers. For the purpose of this clause, computations made or cost reasonably ascertained under section 104(a) of the Davis-Bacon Act on behalf of laborers or mechanics

are considered wages paid to such laborers or mechanics, subject to the provisions of Section III, paragraph 3b, hereof. Also for the purpose of this clause, regular contributions made or costs incurred for more than a weekly period under plans, funds, or programs, but covering the particular weekly period, are deemed to be constructively made or incurred during such weekly period.

2. Classifications:

a. The State highway department contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract, shall be classified or reclassified conformably to the wage determination, and a report of the action taken shall be sent by the State highway department contracting officer to the Secretary of Labor.

b. In the event the interested parties cannot agree on the proper classification or reclassification of a particular class of laborers and mechanics to be used, the question accompanied by the recommendation of the State highway department contracting officer shall be referred to the Secretary for final determination.

3. Payment of Fringe Benefits:

a. The State highway department contracting officer shall require, whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly wage rate and the contractor is obligated to pay a cash equivalent of such a fringe benefit, an hourly cash equivalent thereof to be established. In the event the interested parties cannot agree upon a cash equivalent of the fringe benefit, the question, accompanied by the recommendation of the contracting officer, shall be referred to the Secretary of Labor for determination.

b. The contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, or any bona fide fringe benefits not expressly listed in section 1(b)(2) of the Davis-Bacon Act or otherwise not listed in the wage determination decision of the Secretary of Labor which is included in this contract, only when the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. Whenever practicable, the contractor should request the Secretary of Labor to make such findings before the making of the contract. In the case of unfunded plans and programs, the Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. Payment of Excess Wages:

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this is not a representation that labor can be obtained at these rates. No increase in the contract price shall be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

5. Apprentices:

Apprentices will be permitted to work as such only when they are registered, individually, under a bona fide apprenticeship program registered with a State apprenticeship agency which is recognized by the Bureau of Apprenticeship and Training, United States Department of Labor; or, if no such recognized agency exists in a State, under a program registered with the Bureau of Apprenticeship and Training, United States Department of Labor. The allowable ratio of apprentices to journeymen in any craft classification shall not be greater than the ratio permitted to the contractor as to his entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered as above, shall be

paid the wage rate determined by the Secretary of Labor for the classification of work he actually performed. The contractor or subcontractor will be required to furnish to the State highway department contracting officer written evidence of the registration of his program and apprentices as well as of the appropriate ratios and wage rates, for the area of construction prior to using any apprentices on the contract work.

6. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any workweek in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such workweek, as the case may be.

7. Violation; liability for unpaid wages; liquidated damages:

In the event of any violation of the clause set forth in paragraph 6, the contractor and any subcontractor responsible therefor shall be liable to any affected employee for his unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic employed in violation of the clause set forth in paragraph 6, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of eight hours or in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 6.

8. Withholding for unpaid wages:

The State highway department contracting officer may withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics employed by the contractor or any subcontractor on the work the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic employed or working on the site of the work, all or part of the wages required by the contract, the State highway department contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

9. Withholding for liquidated damages:

The State highway department contracting officer may withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor, such sums as may administratively be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for liquidated damages as provided in the clause set forth in paragraph 7.

IV. STATEMENTS AND PAYROLLS

1. Compliance with Copeland Regulations (29 CFR, Part 3):

The contractor shall comply with the Copeland Regulations (29 CFR, Part 3) of the Secretary of Labor which are herein incorporated by reference.

2. Weekly statement:

Each contractor or subcontractor shall furnish each week a statement to the State highway department resident

engineer with respect to the wages paid each of its employees engaged on work covered by the Copeland Regulations during the preceding weekly payroll period. The statement shall be executed by the contractor or subcontractor or by an authorized officer or employee of the contractor or subcontractor who supervises the payment of wages, and shall be in the form set forth in 29 CFR 3.3. Contractors and subcontractors may use Form PR-808, Weekly Statement of Compliance, for the submission of this statement.

3. Final labor summary:

The contractor and each subcontractor shall furnish, upon the completion of the contract, a summary of all employment, indicating for the completed project the total hours worked and the total amount earned. This data shall be submitted to the State highway department resident engineer on Form PR-47 together with the data required in Section V, hereof, relative to materials and supplies.

4. Final certificate:

Upon completion of the contract, the contractor shall submit to the State highway department contracting officer, for transmission to the Bureau of Public Roads with the voucher for final payment for any work performed under the contract, a certificate concerning wages and classifications for laborers and mechanics employed on the project, in the following form:

The undersigned, contractor on

(Project No.)

hereby certifies that all laborers and mechanics employed by him or by any subcontractor performing work under the contract on the project have been paid wages at rates not less than those predetermined by the Secretary of Labor as stated in the contract provisions, and that the work performed by each such laborer or mechanic conforms to the classification set forth in said provisions applicable to the wage rate paid.

Signature and title

5. Payrolls and payroll records:

a. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work.

b. The payroll records shall contain the name, social security number and address of each such employee, his correct classification, rates of pay (including rates of contributions or costs anticipated of the types described in section 1(b)(2) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor, pursuant to Section III, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

c. The payrolls shall contain the following information:

- (1) The employee's full name, address and social security number. (The employee's full name

and social security number need only appear on the first payroll on which his name appears. The employee's address need only be shown on the first submitted payroll on which the employee's name appears, unless a change of address necessitates a submittal to reflect the new address.)

- (2) The employee's classification.

- (3) Entries indicating the employee's basic hourly wage rate and, where applicable, the overtime hourly wage rate. The payroll should indicate separately the amounts of employee and employer contributions to fringe benefit funds and/or programs. Any fringe benefits paid to the employee in cash must be indicated. There is no prescribed or mandatory form for showing the above information on payrolls.

- (4) The employee's daily and weekly hours worked in each classification, including actual overtime hours worked (not adjusted).

- (5) The itemized deductions made and

- (6) The net wages paid.

d. The contractor will submit weekly a copy of all payrolls to the State highway department resident engineer. The copy shall be accompanied by a statement signed by the employer or his agent indicating that the payrolls are correct and complete, that the wage rates contained therein are not less than those determined by the Secretary of Labor and that the classifications set forth for each laborer or mechanic conform with the work he performed. A submission of a "Weekly Statement of Compliance" which is required under this contract by Section IV, paragraph 2, and the Copeland Regulations of the Secretary of Labor (29 CFR, Part 3) and the filing with the initial payroll or any subsequent payroll of a copy of any findings by the Secretary of Labor pursuant to Section III, paragraph 3b, shall satisfy this requirement. The prime contractor shall be responsible for the submission of copies of payrolls of all subcontractors. The contractor will make the records required under the labor standards clauses of the contract available for inspection by authorized representatives of the State highway department, the Bureau of Public Roads and the Department of Labor, and will permit such representatives to interview employees during working hours on the job.

e. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payment, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

f. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

g. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

h. Every employee on the work covered by this contract shall be permitted to lodge, board and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall, directly or indirectly, require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

i. No charge shall be made for any transportation furnished by the contractor, or his agents, to any person employed on the work.

j. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks, or other equipment from individuals.

V. RECORD OF MATERIALS, SUPPLIES AND LABOR

1. The contractor shall maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form PR-47 and in the units shown. Upon completion of the contract, this record, together with the final labor summary required in Section IV, paragraph 3, hereof, shall be transmitted to the State highway department resident engineer for the project on Form PR-47 in accordance with instructions attached thereto, which will be furnished for this purpose upon request. The quantities for the listed items shall be reported separately for roadway and for structures over 20 feet long as measured along the centerline of the roadway.

2. The contractor shall become familiar with the list of specific materials and supplies contained in Form PR-47 prior to the commencement of work under this contract. Any additional materials information required will be solicited through revisions of Form PR-47 with attendant explanations.

3. Where subcontractors are involved the contractor shall submit either a single report covering work both by himself and all his subcontractors, or he may submit separate reports for himself and for each of his subcontractors.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with his own organization contract work amounting to not less than 50 percent of the original total contract price, except that any items designated by the State as "Specialty Items" may be performed by subcontract and the amount of any such "Specialty Items" so performed may be deducted from the original total contract price before computing the amount of work required to be performed by the contractor with his own organization.

a. "His own organization" shall be construed to include only workmen employed and paid directly by the prime contractor and equipment owned or rented by him, with or without operators.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, craftsmanship or equipment not ordinarily available in contracting organizations qualified to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. In addition to the 50 percent requirement set forth in paragraph 1 above, the contractor shall furnish (a) a competent superintendent or foreman who is employed by him, who has full authority to direct performance of the work in accordance with the contract requirements, and who is in charge of all construction operations (regardless of who performs the work), and (b) such other of his own organizational capability and responsibility (supervision, management, and engineering services) as the State highway department contracting officer determines is necessary to assure the performance of the contract.

3. The contract amount upon which the 50 percent requirement set forth in paragraph 1 is computed includes the cost of materials and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

4. Any items that have been selected as "Specialty Items" for the contract are listed as such in the Special Provisions, bid schedule, or elsewhere in the contract documents.

5. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of

the State highway department contracting officer, or his authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Request for permission to sublet, assign or otherwise dispose of any portion of the contract shall be in writing and accompanied by (a) a showing that the organization which will perform the work is particularly experienced and equipped for such work, and (b) an assurance by the contractor that the labor standards provisions set forth in this contract shall apply to labor performed on all work encompassed by the request.

VII. SAFETY; ACCIDENT PREVENTION

In the performance of this contract, the contractor shall comply with all applicable Federal, State and local laws governing safety, health and sanitation. The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions, on his own responsibility, or as the State highway department contracting officer may determine, reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project in one or more places where it is readily available to all personnel concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

Title 18, United States Code, Section 1020, reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the costs thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Commerce; or

"Whoever knowingly makes any false statement, false representation, false report, or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Commerce; or

"Whoever knowingly makes any false statement or false representation as to a material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-Aid Road Act approved July 1, 1916 (39 Stat. 355), as amended and supplemented;

"Shall be fined not more than \$10,000 or imprisoned not more than five years, or both."

REQUIRED CONTRACT PROVISIONS—FEDERAL AID CONTRACTS SUPPLEMENT TO FORMS PR-1273, 1274, 1275 AND 1276

The required contract provisions set forth in Section II(2) of Forms PR-1273, 1274, 1275 and 1276 are revised to read as follows:

During the performance of this contract, the contractor agrees as follows:

a. The contractor will not discriminate against any employee or applicant for employment because of race, creed, color or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the State Highway Department setting forth the provisions of this nondiscrimination clause.

b. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color or national origin.

c. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the State Highway Department advising the labor union or workers' representative of the contractor's commitments under this section II(2) and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

d. The contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.

e. The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records and accounts by the Bureau of Public Roads and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.

f. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or Federally assisted construction contracts in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation or order of the Secretary of Labor, or as otherwise provided by law.

g. The contractor will include the provisions of this Section II(2) in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the Bureau of Public Roads may direct as a means of enforcing such provisions including sanctions for noncompliance: *Provided, however*, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Bureau, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

A new Section II(3) is added to Forms PR-1273, 1274, 1275 and 1276, relative to the Civil Rights Act of 1964, to read as follows:

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

a. **Compliance with Regulations:** The contractor will comply with the Regulations of the Department of Commerce relative to nondiscrimination in federally-assisted programs of the Department of Commerce (Title 15, Code of Federal Regulations, Part 8, hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

b. **Nondiscrimination:** The contractor, with regard to the work performed by it after award and prior to completion of the contract work, will not discriminate on the ground of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate either directly or indirectly in the discrimination prohibited by Section 8.4 of the Regulations, including employment practices when the contract covers a program set forth in Appendix A-II of the Regulations.

c. **Solicitations:** In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor, supplier, or lessor shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the ground of race, color or national origin.

d. **Information and Reports:** The contractor will provide all information and reports required by the Regulations, or orders and instructions issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the State Highway Department or the Bureau of Public Roads to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the State Highway Department, or the Bureau of Public Roads as appropriate, and shall set forth what efforts it has made to obtain the information.

e. **Sanctions for Noncompliance:** In the event of the contractor's noncompliance with the nondiscrimination provisions of this Section II(3), the State Highway Department shall impose such contract sanctions as it or the Bureau of Public Roads may determine to be appropriate, including, but not limited to,

- (1) withholding of payments to the contractor under the contract until the contractor complies, and/or
- (2) cancellation, termination or suspension of the contract, in whole or in part.

f. **Incorporation of Provisions:** The contractor will include the provisions of Section II(3) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, orders, or instructions issued pursuant thereto. The contractor will take such action with respect to any subcontract, procurement, or lease as the State Highway Department or the Bureau of Public Roads may direct as a means of enforcing such provisions including sanctions for noncompliance: *Provided, however*, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor, supplier, or lessor as a result of such direction, the contractor may request the State to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

RAILROAD PROTECTIVE LIABILITY FORM

BLANK INDEMNITY COMPANY
BLANK INSURANCE COMPANY

Railroad Protective Liability Policy No. _____
(State or Federal Highway Projects)

DECLARATIONS

Item 1. Named Insured _____

Address _____
(No. Street Town(or City) County State)

Item 2. Policy Period: From _____ to _____
(12:01 A.M., standard time at the designated job site as
stated herein.)

Item 3. The insurance afforded is only with respect to such of the following coverages as are indicated (in Item 6) by specific premium charge or charges. The limit of the company's liability against such coverage or coverages shall be as stated herein, subject to all the terms of this policy having reference thereto.

| Coverages | | Limits of Liability | |
|-------------------------------|------------------------------------|-----------------------|-----------------------|
| Blank Indemnity Company | A. Bodily Injury Liability | \$ each person | \$ each occurrence |
| | B. Property Damage Liability | \$ | \$ |
| Blank Insurance Company | C. and Physical Damage to Property | \$ each occurrence | \$ aggregate |

Item 4. Name and Address of Contractor _____

Item 5. Name and Address of Governmental Authority for whom the work by the contractor is being performed _____

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Railroad Protective Liability Form
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Item 6. Designation of the Job Site and Description of Work: _____

| <u>Premium</u> <u>Bases</u> | <u>Rates</u> <u>Coverage A</u> | <u>Coverages B & C</u> | <u>Advance Premiums</u> <u>Coverage A</u> | <u>Coverages B & C</u> |
|--------------------------------|-----------------------------------|----------------------------|--|----------------------------|
|--------------------------------|-----------------------------------|----------------------------|--|----------------------------|

Contract Cost Per \$100 of Cost

Rental Cost Per \$100 of Rental Cost

If Policy Period more than one year:

Premium is payable: On effective date of Policy \$
1st Anniversary \$
2nd Anniversary \$

Date and Place of Issue _____

Countersigned _____ 19 _____

at _____

By _____

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(For policy issued by one company)

BLANK INDEMNITY COMPANY
(A _____ insurance company,
herein called the company)

Agrees with the insured, named in the declarations made a part hereof, in consideration of the payment of the premium and in reliance upon the statements in the declarations made by the named insured and subject to all of the terms of this policy:

(For policy issued by two companies)

BLANK INDEMNITY COMPANY
and
BLANK INSURANCE COMPANY
(Each a _____ insurance
company, herein called the company)

Severally agree with the insured, named in the declarations made a part hereof, in consideration of the payment of the premium and in reliance upon the statements in the declarations made by the named insured and subject to all of the terms of this policy, provided the Blank Indemnity Company shall be the insurer with respect to coverage _____ and no other and the Blank Insurance Company shall be the insurer with respect to coverage _____ and no other:

INSURING AGREEMENTS

I. Coverage A - Bodily Injury Liability

To pay on behalf of the insured all sums which the insured shall become legally obligated to pay as damages because of bodily injury, sickness or disease, including death at any time resulting therefrom, hereinafter called "bodily injury," either (1) sustained by any person arising out of acts or omissions at the designated job site which are related to or are in connection with the work described in Item 6 of the declarations, or (2) sustained at the designated job site by the contractor or any employee of the contractor, or by any employee of the governmental authority specified in Item 5 of the Declarations, or by any designated employee of the insured whether or not arising out of such acts or omissions.

Coverage B - Property Damage Liability

To pay on behalf of the insured all sums which the insured shall become legally obligated to pay as damages because of physical injury to or destruction of property, including loss of use of any property due to such injury or destruction, hereinafter called "property damage," arising out of acts or omissions at the designated job site which are related to or are in connection with the work described in Item 6 of the declarations.

Coverage C- Physical Damage to Property

To pay for direct and accidental loss of or damage to rolling stock and their contents, mechanical construction equipment, or motive power equipment, hereinafter called loss, arising out of acts or omissions at the designated job site which are related to or are in connection with the work described in Item 6 of the declarations; provided such property is owned by the named insured or is leased or entrusted to the named insured under a lease or trust agreement.

II. Definitions

- (a) Insured - The unqualified word "insure" includes the named insured and also includes any executive officer, director or stockholder thereof while acting within the scope of his duties as such.
- (b) Contractor - The word "contractor" means the contractor designated in Item 4 of the declarations and includes all subcontractors of said contractor but shall not include the named insured.
- (c) Designated employee of the insured - The words "designated employee of the insured" mean:
 - (1) any supervisory employee of the insured at the job site,
 - (2) any employee of the insured while operating, attached to or engaged on work trains or other railroad equipment at the job site which are assigned exclusively to the contractor, or
 - (3) any employee of the insured not within (1) or (2) who is specifically loaned or assigned to the work of the contractor for prevention of accidents or protection of property, the cost of whose services is borne specifically by the contractor or by governmental authority.
- (d) Contract - The word "contract" means any contract or agreement to carry a person or property for a consideration or any lease, trust or interchange contract or agreement respecting motive power, rolling stock or mechanical construction equipment.

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III. Defense, Settlement, Supplementary Payments

With respects to such insurance as is afforded by this policy under coverages A and B, the company shall:

- (a) defend any suit against the insured alleging such bodily injury or property damage and seeking damages which are payable under the terms of this policy, even if any of the allegations of the suit are groundless, false or fraudulent; but the company may make such investigation and settlement of any claim or suit as it deems expedient;
- (b) pay, in addition to the applicable limits of liability:
 - (1) all expenses incurred by the company, all costs taxed against the insured in any such suit and all interest on the entire amount of any judgment therein which accrues after entry of the judgment and before the company has paid or tendered or deposited in court that part of the judgment which does not exceed the limit of the company's liability thereon;
 - (2) premiums on appeal bonds required in any such suit, premiums on bonds to release attachments for an amount not in excess of the applicable limit of liability of this policy, but without obligation to apply for or furnish any such bonds;
 - (3) expenses incurred by the insured for such immediate medical and surgical relief to others as shall be imperative at the time of the occurrence;
 - (4) all reasonable expenses, other than loss of earnings, incurred by the insured at the company's request.

IV. Policy Period, Territory

This policy applies only to occurrences and losses during the policy period and within the United States of America, its territories or possessions, or Canada.

EXCLUSIONS

This policy does not apply:

- (a) to liability assumed by the insured under any contract or agreement except a contract as defined herein;
- (b) to bodily injury or property damage caused intentionally by or at the direction of the insured;
- (c) to bodily injury, property damage or loss which occurs after notification to the named insured of the acceptance of the work by the governmental authority, other than bodily injury, property damage or loss resulting from the existence or removal of tools, uninstalled equipment and abandoned or unused materials;

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- (d) under coverages A (1), B and C, to bodily injury, property damage or loss, the sole proximate cause of which is an act or omission of any insured other than acts or omissions of any designated employee of any insured;
- (e) under coverage A, to any obligation for which the insured or any carrier as his insurer may be held liable under any workmen's compensation, unemployment compensation or disability benefits law, or under any similar law; provided that the Federal Employers' Liability Act, U.S. Code (1946) Title 45, Sections 51-60, as amended, shall for the purposes of this insurance be deemed not to be any similar law;
- (f) under coverage B, to injury to or destruction of property (i) owned by the named insured or (ii) leased or entrusted to the named insured under a lease or trust agreement.

CONDITIONS

(The conditions, except conditions 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12, apply to all coverages. Conditions 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 apply only to the coverage noted thereunder.)

1. Premium The premium bases and rates for the hazards described in the declarations are stated therein. Premium bases and rates for hazards not so described are those applicable in accordance with the manuals in use by the company.

The term "contract cost" means the total cost of all work described in Item 6 of the declarations.

The term "rental cost" means the total cost to the contractor for rental of work trains or other railroad equipment, including the remuneration of all employees of the insured while operating, attached to or engaged thereon.

The advance premium stated in the declarations is an estimated premium only. Upon termination of this policy the earned premium shall be computed in accordance with the company's rules, rates, rating plans, premiums and minimum premiums applicable to this insurance. If the earned premium thus computed exceeds the estimated advance premium paid, the company shall look to the contractor specified in the declarations for any such excess; if less, the company shall return to the said contractor the unearned portion paid.

In no event shall payment of premium be an obligation of the named insured.

2. Inspection The named insured shall make available to the company records of information relating to the subject matter of this insurance.

The company shall be permitted to inspect all operations in connection with the work described in Item 6 of the declarations.

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3. Limits of Liability The limit of bodily injury liability stated in the declarations as applicable to "each person" is the limit of the company's liability for all damages, including damages for care and loss of services, arising out of bodily injury sustained by one person as the result of any one occurrence; the limit of such liability stated in the declarations as applicable to "each occurrence" is, subject to the above provision respecting each person, the total limit of the company's liability for all such damage arising out of bodily injury sustained by two or more persons as the result of any one occurrence.

4. Limits of Liability The limit of liability under coverages B and C stated in the declarations as applicable to "each occurrence" is the total limit of the company's liability for all damages and all loss under coverages B and C combined arising out of physical injury to, destruction or loss of all property of one or more persons or organizations, including the loss of use of any property due to such injury or destruction under coverage B, as the result of any one occurrence.

Subject to the above provision respecting "each occurrence," the limit of liability under coverages B and C stated in the declaration as "aggregate" is the total limit of the company's liability for all damages and all loss under coverages B and C combined arising out of physical injury to, destruction or loss of property, including the loss of use of any property due to such injury or destruction under Coverage B.

Under coverage C, the limit of the company's liability for loss shall not exceed the actual cash value of the property, or if the loss is of a part thereof the actual cash value of such part, at time of loss, or what it would then cost to repair or replace the property or such part thereof with other of like kind and quality.

5. Severability of Interests The term "the insured" is used severally and not collectively, but the inclusion herein of more than one insured shall not operate to increase the limits of the company's liability.

6. Notice In the event of an occurrence or loss, written notice containing particulars sufficient to identify the insured and also reasonably obtainable information with respect to the time, place and circumstances thereof, and the names and addresses of the injured and of available witnesses, shall be given by or for the insured to the company or any of its authorized agents as soon as practicable. If claim is made or suit is brought against the insured, he shall immediately forward to the company every demand, notice, summons or other process received by him or his representative.

7. Assistance and Cooperation of the Insured The insured shall cooperate with the company and, upon the company's request, attend hearings and trials and assist in making settlements, securing and giving evidence, obtaining the attendance of witnesses and in the conduct of suits. The insured shall not, except at his own cost, voluntarily make any payment, assume any obligation or incur any expense other than for such immediate medical and surgical relief to others as shall be imperative at the time of accident.

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8. Action Against Company No action shall lie against the company unless, as a condition precedent thereto, the insured shall have fully complied with all the terms of this policy, nor until the amount of the insured's obligation to pay shall have been finally determined either by judgment against the insured after actual trial or by written agreement of the insured, the claimant and the company.

Any person or organization of the legal representative thereof who has secured such judgment or written agreement shall thereafter be entitled to recover under this policy to the extent of the insurance afforded by this policy. No person or organization shall have any right under this policy to join the company as a party to any action against the insured to determine the insured's liability. Bankruptcy or insolvency of the insured or of the insured's estate shall not relieve the company of any of its obligations hereunder.

Coverage C No action shall lie against the company unless, as a condition precedent thereto, there shall have been full compliance with all the terms of this policy nor until thirty days after proof of loss is filed and the amount of loss is determined as provided in this policy.

9. Insured's Duties in Event of Loss In the event of loss the insured shall:

Coverage C

- (a) protect the property, whether or not the loss is covered by this policy, and any further loss due to the insured's failure to protect shall not be recoverable under this policy; reasonable expenses incurred in affording such protection shall be deemed incurred at the company's request;
- (b) file with the company, as soon as practicable after loss, his sworn proof of loss in such form and including such information as the company may reasonably require and shall, upon the company's request, exhibit the damaged property.

10. Appraisal If the insured and the company fail to agree as to the amount of loss, either may, within 60 days after proof of loss is filed, demand an appraisal of the Coverage C loss. In such event, the insured and the company shall each select a competent appraiser, and the appraisers shall select a competent and disinterested umpire. The appraisers shall state separately the actual cash value and the amount of loss and failing to agree shall submit their differences to the umpire. An award in writing of any two shall determine the amount of loss. The insured and the company shall each pay his chosen appraiser and shall bear equally the other expenses of the appraisal and umpire.

The company shall not be held to have waived any of its rights by any act relating to appraisal.

11. Payment of Loss The company may pay for the loss in money but there shall be no abandonment of the damaged property to the company.

Coverage C

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12. No Benefit to Bailee The insurance afforded by this policy shall not inure directly or indirectly to the benefit of any carrier or bailee, other than the named insured, liable for loss to the property.
Coverage C
13. Subrogation In the event of any payment under this policy, the company shall be subrogated to all the insured's rights of recovery therefor against any person or organization and the insured shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights. The insured shall do nothing after loss to prejudice such rights.
14. Application of Insurance The insurance afforded by this policy is primary insurance.
15. Three Year Policy A policy period of three years is comprised of three consecutive annual periods. Computation and adjustment of earned premium shall be made at the end of each annual period. Aggregate limits of liability as stated in this policy shall apply separately to each annual period.
16. Changes Notice to any agent or knowledge possessed by any agent or by any other person shall not affect a waiver or a change in any part of this policy or estop the company from asserting any right under the terms of this policy; nor shall the terms of this policy be waived or changed, except by endorsement issued to form a part of this policy (, signed by _____ (here insert titles of authorized company officials or representatives)); provided, however, changes may be made in the written portion of the declarations by _____ (here insert titles of authorized company representatives) when initialed by such _____ (here insert titles of authorized company representatives) or by endorsement issued to form a part of this policy signed by such _____ (here insert titles of authorized company representatives).
17. Assignment Assignment of interest under this policy shall not bind the company until its consent is endorsed hereon.
18. Cancellation This policy may be canceled by the named insured by mailing to the company written notice stating when thereafter the cancellation shall be effective. This policy may be canceled by the company by mailing to the named insured, contractor and governmental authority at the respective addresses shown in this policy written notice stating when not less than thirty days thereafter such cancellation shall be effective. The mailing of notice as aforesaid shall be sufficient proof of notice. The effective date and hour of cancellation stated in the notice shall become the end of the policy period. Delivery of such written notice either by the named insured or by the company shall be equivalent to mailing.

If the named insured cancels, earned premium shall be computed in accordance with the customary short rate table and procedure. If the company cancels, earned premium shall be computed pro rata. Premium adjustment may be made either at the time cancellation is affected or as soon as practicable after cancellation becomes effective, but payment or tender of unearned premium is not a condition of cancellation.

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19. Declarations By acceptance of this policy the named insured agrees that such statements in the declarations as are made by him are his agreements and representations, that this policy is issued in reliance upon the truth of such representations and that this policy embodies all agreements existing between himself and the company or any of its agents relating to this insurance.

(For policy issued by one company)

In witness whereof, the Blank Indemnity Company has caused this policy to be signed by its president and a secretary at _____, and countersigned on the declarations page by a duly authorized agent of the company.

(FACSIMILE OF SIGNATURE)
Secretary

(FACSIMILE OF SIGNATURE)
President

(For policy issued by two companies)

In witness whereof, the Blank Indemnity Company has caused this policy, with respect to coverage _____ and such other parts of the policy as are applicable thereto, to be signed by its president and a secretary at _____, and countersigned on the declarations page by a duly authorized agent of the company.

(FACSIMILE OF SIGNATURE)
Secretary

(FACSIMILE OF SIGNATURE)
President

In witness whereof, the Blank Insurance Company has caused this policy, with respect to coverages _____ and such other parts of the policy as are applicable thereto, to be signed by its president and a secretary at _____, and countersigned on the declarations page by a duly authorized agent of the company.

(FACSIMILE OF SIGNATURE)
Secretary

(FACSIMILE OF SIGNATURE)
President

AASHO
Railroad Protective Liability Form
June 16, 1958

IT IS SPECIFICALLY UNDERSTOOD AND AGREED THAT THE MINIMUM WAGE RATE FOR A NUMBER OF CLASSIFICATIONS AS ESTABLISHED BY THE SECRETARY OF LABOR UNDER USDL DECISION N AE- 6,115 AND INCLUDED AS A PART OF THIS CONTRACT ARE SUBJECT TO, AND EXPECTED TO BE REVISED FOLLOWING THE 1ST DAY OF DEC., 1965, AND THAT THE BIDDERS ACCEPT FULL RESPONSIBILITY, AND ASSUME THE RISK OF ANY INCREASED LABOR COSTS BY REASON OF PAYING ANY HIGHER RATES THAN THOSE SPECIFIED IN THE CONTRACT.

IN COMPLIANCE WITH THE PROVISIONS OF SECTION 7.02B OF STANDARD SPECIFICATIONS, PUBLIC WORKS - WAGES, THE MINIMUM WAGE RATES ARE DESIGNATED HEREAFTER AS FOLLOWS

PURSUANT TO SECTION 113 OF TITLE 23, UNITED STATES CODE, THE U.S. SECRETARY OF LABOR HAS ESTABLISHED THE MINIMUM WAGE RATES DESIGNATED HEREAFTER UNDER (B). IN ADDITION TO THE RATE SHOWN. THE EMPLOYER SHALL CONTRIBUTE FOR EACH HOUR THE FRINGE BENEFITS SHOWN HEREIN.

IF THERE IS NO DIFFERENCE IN RATES (A) AND (B), RATE (B) IS INDICATED AS SAME. IF THERE IS A DIFFERENCE BETWEEN THE PREVAILING WAGE RATES AS DETERMINED BY THE STATE OF WASHINGTON DEPARTMENT OF LABOR AND INDUSTRIES (A) AND THE MINIMUM WAGE RATES AS PREDETERMINED BY THE U.S. SECRETARY OF LABOR (B) FOR SIMILAR CLASSIFICATIONS OF LABOR, THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL PAY NOT LESS THAN

THE WAGE WHICH IS THE HIGHER OF THE TWO.

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|------|------|------|--|
| 5.03 | -- | BSAS | BRICKLAYER A HEALTH AND WELFARE 15 CENTS A JOURNEYMAN AND APPRENTICE TRAINING 2 CENTS A INDUSTRY ADVANCEMENT FUND 1 CENT |
| | | | CARPENTERS* |
| 4.28 | SAME | CSAA | CARPENTERS |
| 4.38 | SAME | CSAB | CARPENTERS ON CREOSOTED MATERIAL |
| 4.41 | SAME | CSAJ | SAW FILER |
| 4.41 | SAME | CSAS | STATIONARY POWER SAW OPERATOR |
| 4.43 | -- | CSBA | MILLWRIGHT AND MACHINE ERECTOR |
| 4.38 | SAME | CSBS | PILE DRIVER, BRIDGE, DOCK AND WHARF BUILDERS |
| 4.43 | -- | CSCA | BOOMMAN RIGGERS, INCLUDING SIGNALMEN, BURNERS AND WELDERS SHALL BE PAID ACCORDING TO THE CLASSIFICATIONS IN WHICH THEY ARE WORKING. A AND B HEALTH AND WELFARE 15 CENTS A AND B PENSION FUND 15 CENTS A INDUSTRY ADVANCEMENT FUND 1/2 CENT |

PSH 1 (SR 5)
SEATTLE FREEWAY - SOUTH ALBRO
STORM SEWER OUTFALL
EBI-5-3(243)161
REVISED DECEMBER 15, 1965

WAGE RATES
-01-

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|----------------|-------|------|--|
| CEMENT MASONS* | | | |
| 4.42 | SAME | MSAA | JOURNEYMAN CEMENT MASON |
| 4.67 | -- | MSBK | COMPOSITION, COLOR AND MASTIC |
| 4.55 | -- | MSAJ | TROWEL MACHINE OPERATOR |
| 4.67 | -- | MSAS | PAVING FLOAT MACHINE |
| 4.67 | -- | MSAT | GRINDER, CHIPPING GUN AND BUSH HAMMER |
| 4.67 | -- | MSBJ | GUNITE NOZZLEMAN |
| | | | SWINGING SUSPENDED SCAFFOLD OVER 25 FEET AT 13 CENTS ABOVE THE CLASSIFICATION OF THE MAN WORKING THEREON. |
| | | | A AND B HEALTH AND WELFARE 12 CENTS |
| ELECTRICIANS* | | | |
| 4.795 | 4.735 | ESAA | JOURNEYMAN WIREMAN |
| 4.795 | -- | ESAC | JOURNEYMAN TECHNICIAN |
| 5.27 | 5.21 | ESAJ | JOURNEYMAN CABLE SPLICER |
| | | | A HEALTH AND WELFARE 14 CENTS |
| | | | A AND B PENSION FUND 1 PERCENT OF GROSS |
| | | | B HEALTH AND WELFARE 10 CENTS |
| IRON WORKERS* | | | |
| 4.65 | SAME | ISAA | REINFORCING IRON WORKERS |
| 4.85 | -- | ISAB | MACHINERY MOVER, MACHINERY ERECTOR |
| 4.85 | SAME | ISAJ | ORNAMENTAL IRON WORKERS |
| 4.85 | -- | ISAC | SHEETERS |
| 4.85 | SAME | ISAS | STRUCTURAL IRON WORKERS |
| 4.85 | SAME | ISBA | FENCE ERECTORS |
| 4.85 | -- | ISBK | RIGGERS AND SIGNALMEN |
| -- | 4.85 | ISBK | RIGGERS |
| 4.85 | -- | ISBJ | WELDERS AND BURNERS |
| | | | A AND B HEALTH AND WELFARE 20 CENTS |
| | | | A AND B PENSION FUND 10 CENTS |
| | | | A AND B APPRENTICE TRAINEE PROGRAM 1 CENT |
| PAINTERS* | | | |
| 4.34 | SAME | PSAA | BRUSH |
| 4.54 | -- | PSAJ | SPRAY |
| 4.54 | -- | PSAM | BITUMASTIC AND OPEN STRUCTURAL STEEL |
| 4.54 | -- | PSAS | SANDBLASTING |
| 4.54 | -- | PSAT | SWING STAGE |
| 4.54 | -- | PSAU | BRIDGES |
| | | | A AND B HEALTH AND WELFARE 15 CENTS |
| | | | A AND B APPRENTICE TRAINEE PROGRAM 1 CENT |
| 4.58 | SAME | FSAA | JOURNEYMAN PLUMBERS |
| 4.58 | -- | FSAJ | PIPEFITTERS |

PSH 1 (SR 5)
SEATTLE FREEWAY - SOUTH ALBRO
STORM SEWER OUTFALL
EBI-5-3(243)161
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WAGE RATES
-02-

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|------|------|------|--|
| | | | A AND B HEALTH AND WELFARE 21 CENTS |
| | | | A AND B PENSION FUND 21 CENTS |
| | | | A AND B VACATION FUND 20 CENTS |
| | | | A AND B APPRENTICE TRAINEE PROGRAM 2 CENTS |
| | | | A INDUSTRY ADVANCEMENT FUND 2 CENT |
| 4.34 | -- | WSAA | ROOFERS AND WATERPROOFERS |
| | | | A HEALTH AND WELFARE 12 CENTS |
| 3.60 | -- | LSBK | LANDSCAPE LABORER |
| | | | A HEALTH AND WELFARE 15 CENTS |
| | | | A PENSION FUND 15 CENTS |
| | | | * |
| | | | OPERATING ENGINEER* |
| | | | BATCH PLANT OPERATOR* |
| 4.79 | SAME | OSAA | BATCH AND MIXER - 200 YARDS PER HOUR AND UNDER |
| 5.08 | SAME | OSAJ | BATCH AND MIXER, OVER 200 YDS.P.H. THRU. 400 YDS.P.H. |
| 5.37 | SAME | OSAL | BATCH AND MIXER, OVER 400 YDS.P.H. THRU. 600 YDS.P.H. |
| 4.76 | SAME | OSAK | BROOMS, POWER (WAYNE, SAGINAW AND SIMILAR TYPES) |
| 4.76 | SAME | OSAS | BULLDOZERS |
| 5.13 | SAME | OSAM | PAY DOZERS AND LINKED PUSHER AND SIMILAR |
| 5.04 | SAME | OSAN | BUMP CUTTER (CONCUT, CHRISTIANSON OR SIMILAR TYPES) |
| | | | CABLEWAYS* |
| 5.13 | SAME | OSBA | 3 YARDS AND UNDER |
| 5.49 | SAME | OSBJ | OVER 3 YARDS |
| 4.90 | SAME | OSBS | CEMENT HOGS |
| | | | COMPRESSORS* |
| 4.49 | SAME | OSCA | EXCAVATING |
| 4.87 | SAME | OSCI | STEEL ERECTION INCLUDING SAND BLASTING, PAINTING OF THE SAMI |
| | | | CRANES* |
| 4.79 | SAME | OSDA | A-FRAME TRUCKS - SINGLE POWER DRUM |
| 5.13 | SAME | OSDC | A-FRAME TRUCKS - DOUBLE POWER DRUM |
| | | | CRAWLER AND TRUCK TYPE, FLOATING, LOCOMOTIVE, WHIRLEY, |
| | | | EITHER 3 YARDS AND UNDER OR 150 FT. OF BOOM AND UNDER, |
| 5.13 | SAME | OSDS | OR 45 TONS AND UNDER |
| | | | CRAWLER AND TRK. TYPE, FLOATING, LOCOMOTIVE, WHIRLEY, EITHEI |
| 5.49 | SAME | OSCB | OVER 3 YARDS, OR OVER 150 FT. OF BOOM, OR OVER 45 TONS |
| 5.49 | SAME | OSCK | TOWER CRANES, PECCO, LORRAINE, BUCYRUS AND SIMILAR TYPES |
| 5.13 | SAME | OSDB | HYDRALIFTS |
| 5.13 | SAME | OSDH | HYSTER CAT CRANES AND ATTACHMENTS |
| 4.79 | SAME | OSDI | CONVEYORS |
| 5.08 | SAME | OSDJ | CONVEYORS, BELTCRETE WITH POWER PACK AND SIMILAR TYPES |
| 4.79 | SAME | OSDT | CRUSHERS, ROCK |

PSH 1 (SR 5)

SEATTLE FREEWAY - SOUTH ALBRO

STORM SEWER OUTFALL

EBI-5-3(243)161

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WAGE RATES

-03-

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|------|------|------|---|
| 5.13 | SAME | OSEA | DERRICKS, ALL |
| 5.13 | SAME | OSEJ | DRILLING MACHINES, CORE, CABLE, ROTARY AND EXPLORATION |
| 4.79 | SAME | OSSE | FINISHING MACHINE OPERATOR, CONCRETE PAVING |
| 4.44 | SAME | OSFA | FIREMAN, HOT PLANT AND DRIER |
| 4.79 | SAME | OSFJ | HOISTS, AIR TUGGERS AND DECK WINCHES (POWER) |
| 4.87 | SAME | OSFS | HOISTS ON STEEL ERECTION TOWERMOBILES AND AIR TUGGERS LOADERS* |
| 4.79 | SAME | OSGA | ELEVATING-ATHEY, BARBER GREENE AND SIMILAR TYPES |
| 5.08 | SAME | OSGJ | ELEVATING BELT TYPE - EUCLID AND SIMILAR TYPES |
| 4.90 | SAME | OSGS | ELEVATING GRADER TYPE-DUMOR AND SIMILAR TYPES |
| 4.76 | SAME | OSHA | FORK LIFTS OR LUMBER STACKER (ON CONSTRUCTION JOB SITE) |
| 4.87 | SAME | OSHB | FORK LIFTS WITH TOWER |
| 5.13 | SAME | OSHC | FORK LIFTS WITH POWER BOOM AND SWING ATTACHMENT |
| 4.79 | SAME | OSHJ | OVERHEAD AND FRONT END - UNDER 2 1/2 YARDS |
| 5.13 | SAME | OSHS | OVERHEAD AND FRONT END - 2 1/2 YARDS UP TO 4 YARDS |
| 5.33 | SAME | OSIA | OVERHEAD AND FRONT END - 4 YARDS AND OVER |
| | | | LOCOMOTIVES* |
| 4.56 | SAME | OSIJ | DINKEY-AIR, ELECTRIC, STEAM, GAS OR DIESEL |
| 4.90 | SAME | OSIS | ROD OR GEARED ENGINES |
| 4.79 | SAME | OSJA | MECHANICS, HEAVY DUTY |
| 4.25 | SAME | OSJJ | MECHANICS HELPERS, HEAVY DUTY SHOP |
| | | | MIXERS* |
| 4.73 | SAME | OSJS | ASPHALT |
| 5.13 | SAME | OSKA | MOBILE TYPE WITH HOIST COMBINATION |
| 4.79 | SAME | OSKJ | CONCRETE MIXERS AND BATCH - 200 YARDS PER HOUR AND UNDER |
| | | | CONCRETE MIXERS AND BATCH - OVER 200 YARDS PER HOUR |
| 5.08 | SAME | OSKT | THROUGH 400 YARDS PER HOUR |
| | | | CONCRETE MIXERS AND BATCH, OVER 400 YARDS PER HOUR THROUGH |
| 5.37 | SAME | OSKU | 600 YARDS PER HOUR |
| 4.90 | SAME | OSLA | PAVING |
| 5.08 | SAME | OSLJ | PAVING DUAL |
| 4.85 | SAME | OSLS | MOTOR PATROL GRADERS |
| 5.13 | SAME | OSMA | MUCKING MACHINES, MOLE OR TUNNEL DRILL |
| 4.55 | SAME | OSMJ | OIL DISTRIBUTORS |
| 4.34 | SAME | OSMS | OILERS AND/OR BRAKEMEN |
| 4.40 | SAME | OSMT | EQUIPMENT SERVICE OILER AND FIREMAN |
| 4.40 | SAME | OSMU | OILER DRIVER ON TRUCK CRANES OVER 45 TON |
| 5.13 | SAME | OSNA | PILEDRIER ENGINEERS |
| 4.73 | SAME | OSNJ | POST HOLE DIGGERS, MECHANICAL |
| 4.79 | SAME | OSNS | POWER PLANT OPERATORS |
| | | | PUMPS* |

PSH 1 (SR 5)
SEATTLE FREEWAY - SOUTH ALBRO
STORM SEWER OUTFALL
EBI-5-3(243)161
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WAGE RATES
-04-

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|------|------|-------|--|
| 4.79 | SAME | OSOA | FULLER KENYON |
| 4.79 | SAME | OSOJ | CONCRETE AND PUMP CRETE |
| 4.61 | SAME | OSOS | WATER |
| | | | ROLLERS, TAMPERS AND VIBRATORS* |
| 4.79 | SAME | OSPA | ON PLANT, ROAD MIX OR MULTILIFT MATERIALS |
| 4.49 | SAME | DSPJ | OTHER THAN PLANT, ROAD MIX OR MULTILIFT MATERIALS (WHERE TOWED, TO PAY RATE OF EQUIPMENT USED TO PULL) |
| 4.76 | SAME | OSPS | SAWS, CONCRETE SCRAPERS* |
| 4.76 | SAME | OSQA | CARRYALL TYPE - SINGLE |
| 4.90 | SAME | OSQJ | CARRYALL TYPE - DOUBLE |
| 4.79 | SAME | OSQS | SCREED MAN SHOVELS* |
| 5.13 | SAME | OSRA | CRAWLER AND TRUCK TYPE, ALL ATTACHMENTS - 3 YARDS AND UNDER |
| 5.49 | SAME | OSRJ | CRAWLER AND TRUCK TYPE, ALL ATTACHMENTS - OVER 3 YARDS |
| 4.79 | SAME | OSRS | SPREADERS, BLAW KNOX, CEDARAPIDS, JAEGER OR SIMILAR TYPES |
| 5.49 | SAME | OSRT | SLIP FORM PAVER |
| 5.13 | SAME | OSRU | SUB GRADER (GURRIES OR OTHER AUTOMATIC TYPES) |
| 4.49 | SAME | OSSA | TRACTORS, FARMALL TYPE, 60 HORSEPOWER AND UNDER |
| 4.61 | SAME | OSSB | TRACTORS, FARMALL TYPE, OVER 60 HORSEPOWER |
| | | | TRACTORS FARMALL TYPE USED AS BACKHOES, RUBBER TIED |
| 4.93 | SAME | OSSA1 | (FORD, FERGUSON, CASE AND SIMILAR TYPES) 60 H.P. AND UNDER |
| | | | TRACTORS, FARMALL TYPE USED AS BACKHOES, RUBBER TIED |
| 5.13 | SAME | OSSA2 | (FORD, FERGUSON, CASE AND SIMILAR TYPES) OVER 60 H. P. |
| | | | TOURNAPULLS, CATERPILLAR, EUCLID SCRAPERS AND SIMILAR TYPE |
| 4.85 | SAME | OSSJ | EQUIPMENT - 25 YARDS AND UNDER |
| | | | TOURNAPULLS, CATERPILLAR, EUCLID SCRAPERS AND SIMILAR TYPE |
| 5.13 | SAME | OSSS | EQUIPMENT - OVER 25 YARDS THRU 40 YARDS |
| | | | TOURNAPULLS, CATERPILLAR, EUCLID SCRAPERS-OVER |
| 5.41 | SAME | OSSA3 | 40 YARDS THROUGH 55 YARDS |
| | | | TOURNAPULLS, CATERPILLAR, EUCLID SCRAPERS-OVER 55 YARDS TO BE NEGOTIATED |
| | | | ALL EQUIPMENT SET FORTH IN THE ABOVE ITEM WILL BE CLASSIFIED IN ACCORDANCE WITH THEIR RESPECTIVE MANUFACTURERS RATED CAPACITY EXCEPT WHERE SIDEBORDS ARE USED, IN WHICH EVENT THE EQUIPMENT WILL BE CLASSIFIED AND PAID ACCORDING TO THE MEASURED CAPACITY (STRUCK MEASURE). THE RATES OF PAY FOR ALL TANDEM SCRAPERS AND/OR SCRAPER TRAILER WILL BE PAID IN ACCORDANCE WITH THE TOTAL YARDAGE THEREOF. |
| | | | TRENCHING MACHINES* |

PSH 1 (SR 5)
SEATTLE FREEWAY - SOUTH ALBRO
STORM SEWER OUTFALL
EBI-5-3(243)161
REVISED DECEMBER 15, 1965

WAGE RATES
-05-

KCSlip4 37068

SEA403613

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|------|------|-------|--|
| 4.79 | SAME | OSUA | UNDER 16 INCHES |
| 5.03 | SAME | OSUJ | 16 INCHES AND OVER |
| | | | MASTER MECHANICS - \$2.00 PER DAY OVER SHOVEL SCALE. |
| | | | FOREMAN - \$0.25 PER HR. OVER HIGHEST CLASSIFICATION |
| | | | UNDER HIS SUPERVISION. |
| | | | WAGE SCALES FOR OPERATORS OF EQUIPMENT OPERATED ON HEAVY |
| | | | CONSTRUCTION NOT LISTED HEREIN SHALL BE NEGOTIATED AT THE |
| | | | TIME SUCH EQUIPMENT IS TO BE OPERATED. |
| | | | OPERATORS ON UNDERGROUND WORK SHALL RECEIVE A TEN PER CENT |
| | | | ADDITIONAL PREMIUM, OPERATORS OF MUCKING MACHINES |
| | | | EXCEPTED. |
| | | | * |
| | | | A AND B HEALTH AND WELFARE 20 CENTS |
| | | | A AND B PENSION FUND 20 CENTS |
| | | | * |
| | | | TRUCK DRIVER* |
| 4.47 | SAME | TSAA | BUGGYMOBILE |
| 4.32 | SAME | TSAB | SCISSOR TRUCK |
| 4.52 | SAME | TSAJ | SEMI OR TRUCK AND TRAILER (OTHER THAN EARTHMOVING EQUIPMENT) |
| 4.62 | SAME | TSBA | TURNAWAGON, TURNOROCKERS, TURNATRailer, ETC. |
| 4.32 | SAME | TSBB | VACUUM TRUCK |
| | | | DUMP TRUCKS, DUMPTORS, LETOURNEAU, CATERPILLAR, EUCLID |
| | | | AND SIMILAR TOP LOADED EQUIPMENT* |
| 4.32 | SAME | TSBJ1 | UP TO AND INCLUDING 5 YARDS |
| 4.52 | SAME | TSBJ2 | OVER 5 YARDS TO AND INCLUDING 12 YARDS |
| 4.62 | SAME | TSBJ3 | OVER 12 YARDS TO AND INCLUDING 20 YARDS |
| 4.77 | SAME | TSBJ4 | OVER 20 YARDS TO AND INCLUDING 30 YARDS |
| 4.92 | SAME | TSBJ5 | OVER 30 YARDS TO AND INCLUDING 40 YARDS |
| 5.07 | SAME | TSBJ6 | OVER 40 YARDS |
| 4.32 | SAME | TSBS | GREASERS, TIRE SERVICE |
| | | | FLATBED* |
| 4.32 | SAME | TSCS1 | SINGLE REAR AXLE |
| 4.42 | SAME | TSCS2 | DUAL REAR AXLE |
| 4.47 | SAME | TSDA | HYSTER OPERATORS (HANDLING BULK LOOSE AGGREGATES) |
| 4.47 | SAME | TSDJ | ROSS, HYSTER AND SIMILAR STRADDLE EQUIPMENT |
| | | | LOWBED H.D. TRAILER* |
| 4.52 | | TSDS1 | UNDER 50 TON GROSS |
| 4.77 | SAME | TSDS2 | 50 TON GROSS AND OVER |
| 4.52 | SAME | TSEA | OIL DISTRIBUTOR DRIVER |
| | | | TRANSIT-MIX USED EXCLUSIVELY IN HEAVY CONSTRUCTION |
| 4.51 | SAME | TSEJ1 | 0 TO AND INCLUDING 4 1/2 YARDS |

PSH 1 (SR 5)
 SEATTLE FREEWAY - SOUTH ALBRO
 STORM SEWER OUTFALL
 EBI-5-3(243)161
 REVISED DECEMBER 15, 1965

WAGE RATES
 -06-

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|------|------|-------|---|
| 4.66 | SAME | TSEJ2 | OVER 4 1/2 YARDS TO AND INCLUDING 6 YARDS |
| 4.81 | SAME | TSEJ3 | OVER 6 YARDS TO AND INCLUDING 8 YARDS |
| 4.96 | SAME | TSEJ4 | OVER 8 YARDS TO AND INCLUDING 10 YARDS |
| 5.11 | SAME | TSEJ5 | OVER 10 YARDS TO AND INCLUDING 12 YARDS |
| 5.26 | SAME | TSEJ6 | OVER 12 YARDS TO AND INCLUDING 16 YARDS |
| 5.41 | SAME | TSEJ7 | OVER 16 YARDS TO AND INCLUDING 20 YARDS |
| 5.56 | SAME | TSEJ8 | OVER 20 YARDS |
| 4.22 | SAME | TSES | PICKUP TRUCK |
| 4.22 | SAME | TSFA | SWAMPERS |
| 4.52 | SAME | TSFB | SLURRY TRUCK |
| 4.32 | SAME | TSFD | SPREADER, FLAHERTY |
| 4.22 | SAME | TSFC | ESCORT OR PILOT CAR |
| 4.32 | SAME | TSFE | BUS OR MAN HAUL |
| 4.27 | SAME | TSFJ | TEAM DRIVER |
| | | | WATER WAGON AND TANK TRUCK* |
| 4.32 | SAME | TSFS1 | UP TO 1600 GALLONS |
| 4.47 | SAME | TSFS2 | 1600 GALLONS TO 3000 GALLONS |
| 4.62 | SAME | TSFS3 | OVER 3000 GALLONS |
| | | | WINCH TRUCK* |
| 4.32 | SAME | TSGA1 | SINGLE REAR AXLE |
| 4.52 | SAME | TSGA2 | DUAL REAR AXLE |
| | | | BULL LIFTS, OR SIMILAR EQUIPMENT USED IN LOADING OR UNLOADING |
| | | | TRUCKS TRANSPORTING MATERIALS ON JOB SITES* |
| 4.32 | SAME | TSGJ | WAREHOUSING |
| 4.64 | SAME | TSGS | OTHER THAN WAREHOUSING |
| 4.22 | SAME | TSHA | WAREHOUSEMEN |
| 4.22 | SAME | TSHJ | LEVERMAN AND LOADERS AT BUNKERS AND BATCH PLANTS |
| 4.76 | SAME | TSHS | A-FRAME, HYDRALIFT TRUCKS WHEN A-FRAME OR HYDRALIFT IS IN USE |
| 4.62 | SAME | TSIA | BULK CEMENT TANKER |
| 4.32 | SAME | TSIJ | GREASE TRUCK AND/OR FUEL TRUCK DRIVER |
| | | | WAGE SCALE FOR OPERATORS OF EQUIPMENT TO BE OPERATED ON HEAVY |
| | | | CONSTRUCTION AND NOT LISTED HEREIN SHALL BE NEGOTIATED AT |
| | | | THE TIME SUCH EQUIPMENT IS TO BE OPERATED |
| | | | EMPLOYEES OPERATING EQUIPMENT UNDERGROUND WILL RECEIVE TEN |
| | | | PERCENT IN ADDITION TO THE ABOVE RATES |
| | | | * |
| | | | A AND B HEALTH AND WELFARE 28 CENTS |
| | | | A AND B PENSION FUND 15 CENTS |
| | | | * |
| | | | LABORERS* |
| 3.95 | SAME | LSAA | CEMENT DUMPER - PAVING |

PSH 1 (SR 5)
 SEATTLE FREEWAY - SOUTH ALBRO
 STORM SEWER OUTFALL
 EBI-5-3(243)161
 REVISED DECEMBER 15, 1965

WAGE RATES

-07-

KCSlip4 37070

SEA403615

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|------|------|-------|---|
| 3.80 | SAME | LSAE | CONCRETE SAW OPERATOR |
| 3.70 | SAME | LSAJ | DUMPMAN |
| | | | FALLER AND BUCKER* |
| 3.70 | SAME | LSAS1 | HAND |
| 3.90 | SAME | LSAS2 | CHAIN SAW |
| 3.85 | SAME | LSBA | FORM SETTER (STEEL FORMS) |
| | | | GENERAL LABOR* |
| | | | NIPPER, TRUCK SPOTTER, PITMAN, BRUSH CUTTER, CHOKER SETTER, |
| | | | CONCRETE AND MONOLITHIC LABORER, ASPHALT LABORER, DITCH- |
| | | | DIGGER, POT TENDER, DRIERMAN, CONCRETE FORM STRIPPER, |
| 3.60 | -- | LSBJ | CARPENTER HELPER, TRACK LABORER, FLAGMAN |
| | | | NIPPER, TRUCK SPOTTER, PITMAN, BRUSH CUTTER, CHOKER SETTER, |
| | | | CONCRETE AND MONOLITHIC LABORER, ASPHALT LABORER, DITCH- |
| | | | DIGGER, POT TENDER, DRIERMAN, CONCRETE FORM STRIPPER, |
| -- | 3.60 | LSBJ | CARPENTER HELPER, TRACK LABORER |
| 3.75 | SAME | LSBM | GROUTMAN (PRESSURE) |
| 3.90 | SAME | LSBS | HIGH SCALER |
| 3.90 | SAME | LSCJ | MORTARMAN AND HOD CARRIERS |
| 3.85 | SAME | LSCS | NOZZLEMAN (SANDBLAST, GUNITE, SHOT-CRETE) |
| 3.90 | SAME | LSDA | PIPE LAYER AND CAULKER, PIPE WRAPPER |
| 3.80 | SAME | LSDJ | PIPE POT TENDERER |
| 3.95 | SAME | LSDS | POWDERMAN |
| 3.70 | SAME | LSEA | POWDERMANS HELPER |
| 3.80 | SAME | LSEJ | POWER WHEEL BARROW OR BUGGY |
| | | | POWER TOOLS - HEAVY DUTY* |
| | | | JACKHAMMER, PAVEMENT BREAKER VIBRATORS, TAMPERS (MULTIPLE |
| 3.80 | SAME | LSES | AND SELF-PROPELLED), RAILROAD SPIKE PULLER |
| | | | POWER TOOLS - LIGHT DUTY* |
| | | | CHIPPERS, GRINDERS, TAMPERS, AND SIMILAR ELECTRIC AND AIR |
| 3.75 | SAME | LSFA | OPERATED TOOLS |
| 3.80 | SAME | LSFJ | RAKER - ASPHALT |
| 3.85 | SAME | LSFS | RODDER |
| 3.70 | SAME | LSGA | SLOPER (OVER 20 FEET) |
| 3.85 | SAME | LSGJ | SPREADER (CARRIES GRADE WITH RODDER) |
| | | | SWINGING SCAFFOLD OR BOATSWAIN CHAIR OVER WATER OR OVER |
| 3.75 | SAME | LSGL | 25 FT. IN HEIGHT |
| 3.90 | SAME | LSGS | TIMBERMAN - SEWER |
| 3.90 | SAME | LSHA | WAGON DRILLER AND AIRTRAC |
| 3.70 | SAME | LSHJ | WAGON DRILLER AND AIRTRAC HELPER |
| | | | TUNNEL WORK* |
| 3.90 | SAME | LSHS | MINER (INCLUDING MONOLITHIC WORK) |

PSH 1 (SR 5)

SEATTLE FREEWAY - SOUTH ALBRO

STORM SEWER OUTFALL

EBI-5-3(243)161

REVISED DECEMBER 15, 1965

WAGE RATES

-08-

HOURLY MINIMUM WAGE RATE -KING COUNTY

| (A) | (B) | CODE | OCCUPATION |
|------|------|------|------------------------|
| 3.95 | SAME | LSIA | MINER, SHAFT AND RAISE |
| 3.90 | SAME | LSIJ | SPADER |
| 4.05 | SAME | LSIS | POWDERMAN |
| 3.80 | SAME | LSJA | POWDERMANS HELPER |
| 3.90 | SAME | LSJJ | RE-TIMBERMAN |
| 3.70 | SAME | LSJS | CHUCK TENDER |
| 3.70 | SAME | LSKA | MUCKER AND LABORER |
| 3.70 | SAME | LSKJ | NIPPER |
| 3.70 | SAME | LSKS | BRAKEMAN |
| 3.65 | SAME | LSLA | TOPMAN AND BULL GANG |
| 3.90 | SAME | LSLJ | MAINTENANCE MAN |

*
A AND B HEALTH AND WELFARE 15 CENTS
A AND B PENSION FUND 15 CENTS
*

BEFORE USING APPRENTICES ON THE JOB THE CONTRACTOR SHALL PRESENT TO THE CONTRACTING OFFICER WRITTEN EVIDENCE OF REGISTRATION OF SUCH EMPLOYEES IN A PROGRAM OF A STATE APPRENTICESHIP AND TRAINING AGENCY APPROVED AND RECOGNIZED BY THE U. S. BUREAU OF APPRENTICESHIP AND TRAINING. IN THE ABSENCE OF SUCH A STATE AGENCY, THE CONTRACTOR SHALL SUBMIT EVIDENCE OF APPROVAL AND REGISTRATION BY THE U. S. BUREAU OF APPRENTICESHIP AND TRAINING.

THE CONTRACTOR SHALL SUBMIT TO THE CONTRACTING OFFICER WRITTEN EVIDENCE OF THE ESTABLISHED APPRENTICE-JOURNEYMAN RATIOS AND WAGE RATES IN THE PROJECT AREA, WHICH WILL BE THE BASIS FOR ESTABLISHING SUCH RATIOS AND RATES FOR THE PROJECT UNDER THE APPLICABLE CONTRACT PROVISIONS.

PSH 1 (SR 5)
SEATTLE FREEWAY - SOUTH ALBRO
STORM SEWER OUTFALL
EBI-5-3(243)161
REVISED DECEMBER 15, 1965

WAGE RATES
-09-

P R O P O S A L

To the Director of Highways
Olympia, Washington

Dear Sir:

The undersigned hereby certifies that _____ ha _____ examined the location of **PSH 1 (SR 5) IN KING COUNTY, SEATTLE FREEWAY - SOUTH ALBRO STORM SEWER OUTFALL, FEDERAL AID INTERSTATE PROJECT NO. EBI-5-3(243)161, FREEWAY STATION S8BL 1970+00,**

and ha _____ read and thoroughly understand _____ the plans, specifications and contract governing the work embraced in this improvement, and the method by which payment will be made for said work, and hereby propose _____ to undertake and complete the work embraced in this improvement, or as much thereof as can be completed with the money available, in accordance with the said plans, specifications and contract, and the following schedule of rates and prices:

(NOTE: Unit prices for all items, all extensions, and total amount of bid, should be shown. Show unit prices in figures only.)

| ITEM NO. | APPROXIMATE QUANTITY | I T E M | PRICE PER UNIT | | AMOUNT | |
|----------|----------------------|--|----------------|------|---------|----|
| | | | DOLLARS | CTS. | DOLLARS | CT |
| 1 | 5,700.0 CU. YDS. | GRAVEL BACKFILL FOR PIPE BEDDING //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER CU. YD. | | | |
| 2 | 250.0 CU. YDS. | FURNISHING, PLACING AND COMPACTING SELECTED BACKFILL MATERIAL //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER CU. YD. | | | |
| 3 | 30.0 CU. YDS. | CRUSHED SURFACING BASE COURSE //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER CU. YD. | | | |
| | | ASPHALT CONCRETE PAVEMENT | AT | | | |
| 4 | 85.0 TONS | CLASS B //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER TON | | | |
| | | CEMENT CONCRETE PAVEMENT | AT | | | |
| 5 | 820.0 SQ. YDS. | CEMENT CONCRETE PAVEMENT 14" MIX 0.75 FT. SECTION //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER SQ. YD. | | | |

PSH 1 (SR 5)
SEATTLE FREEWAY
SOUTH ALBRO STORM SEWER OUTFALL
EBI-5-3(243)161 - 1965

PROPOSAL - Continued

| ITEM NO. | APPROXIMATE QUANTITY | ITEM | PRICE PER UNIT | | AMOUNT | |
|----------|----------------------|--|----------------|------|---------|------|
| | | | DOLLARS | CTS. | DOLLARS | CTS. |
| 6 | 3,280.0 SQ. YDS. | REMOVING PAVED SURFACES //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER SQ. YD. | | | |
| 7 | 120.0 SQ. YDS. | CEMENT CONCRETE DRIVEWAY 3 DAY 6 SACK MIX //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER SQ. YD. | | | |
| | | OTHER ITEMS | AT | | | |
| 8 | 25,025.0 CU. YDS. | STRUCTURE EXCAVATION //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER CU. YD. | | | |
| 9 | 3,720.0 HOURS | MECHANICAL TAMPER //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER HOUR | | | |
| 10 | 760.0 LIN. FT. | INTEGRAL CEMENT CONCRETE CURB TYPE NO. SE-21C //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER LIN. FT. | | | |
| 11 | 24.0 CU. YDS. | CONCRETE CLASS AX //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER CU. YD. | | | |
| 12 | 36.0 CU. YDS. | CONCRETE CLASS H //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER CU. YD. | | | |
| 13 | 2,015.0 POUNDS | STEEL REINFORCING BARS //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER POUND | | | |
| 14 | 0.8 MBM | TIMBER AND LUMBER CREOSOTE TREATED //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER MBM | | | |
| 15 | 8.0 LIN. FT. | CLASS IV REINFORCED CONCRETE SEWER PIPE 72 IN. DIAMETER //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER LIN. FT. | | | |
| 16 | 343.0 LIN. FT. | CLASS II RUBBER GASKETED REINFORCED CONCRETE SEWER PIPE 36 IN. DIAMETER //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER LIN. FT. | | | |

PSH 1 (SR 5)
SEATTLE FREEWAY
SOUTH ALBRO STORM SEWER OUTFALL
EBI-5-3(243)161 - 1965

PROPOSAL-Continued

| ITEM NO. | APPROXIMATE QUANTITY | ITEM | PRICE PER UNIT | | AMOUNT | |
|----------|----------------------|---|----------------|------|---------|----|
| | | | DOLLARS | CTS. | DOLLARS | CT |
| 17 | 4,377.0 LIN. FT. | TYPE 5 METAL SEWER PIPE 10 GAGE 66 IN. DIAMETER //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER LIN. FT. | | | |
| 18 | 474.0 LIN. FT. | WELDED STEEL PIPE 5/8 IN. PLATE 66 IN. DIAMETER, FURNISHING AND JACKING //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER LIN. FT. | | | |
| 19 | 348.0 LIN. FT. | TESTING SEWER PIPE //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER LIN. FT. | | | |
| 20 | 1.0 ONLY | MANHOLE TYPE A UNDER 12 FEET //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER EACH | | | |
| 21 | 6.0 ONLY | MANHOLE TYPE B UNDER 12 FEET //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER EACH | | | |
| 22 | 5.0 ONLY | MANHOLE TYPE C UNDER 12 FEET //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER EACH | | | |
| 23 | 1.0 ONLY | MANHOLE TYPE D UNDER 12 FEET //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER EACH | | | |
| 24 | 1.0 ONLY | MANHOLE TYPE E UNDER 12 FEET //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER EACH | | | |
| 25 | 1.0 ONLY | MANHOLE TYPE SE-29 UNDER 12 FEET //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER EACH | | | |
| 26 | 1,680.0 SQ. YDS. | CEMENT CONCRETE SIDEWALK //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER SQ. YD. | | | |
| 27 | 80.0 TONS | HEAVY LOOSE RIPRAP //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER TON | | | |
| 28 | 900.0 LIN. FT. | FURNISHING TIMBER PILING CREOSOTE TREATED //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER LIN. FT. | | | |

PSH 1 (SR-5)
SEATTLE FREEWAY
SOUTH ALBRO STORM SEWER OUTFALL
EBI-5-3(243)161 - 1965

PROPOSAL - Continued

| ITEM NO. | APPROXIMATE QUANTITY | ITEM | PRICE PER UNIT | | AMOUNT | |
|----------|----------------------|---|----------------|------|---------|------|
| | | | DOLLARS | CTS. | DOLLARS | CTS. |
| 29 | 29.0 ONLY | DRIVING TIMBER PILES CREOSOTE TREATED //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | PER EACH | | | |
| 30 | LUMP SUM | 30 IN. DIAMETER CAST IRON PIPE COOLING WATER LINE CROSSING //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | LUMP | SUM | | |
| 31 | | FLAGGING //////////////////////////////////// //////////////////////////////////// //////////////////////////////////// | AT | | | |
| | | | ESTIMATED | | 1,000 | 00 |
| | | | AT | | | |
| | | TOTAL | | | | |
| | | | AT | | | |
| | | | AT | | | |
| | | | AT | | | |
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| | | | AT | | | |
| | | | AT | | | |

INFORMATIONAL

COPY

PSH 1 (SR 5)
SEATTLE FREEWAY
SOUTH ALBRO STORM SEWER OUTFALL
EBI-5-3(243)161 - 1965

PROPOSAL — Continued

The undersigned hereby agrees to pay to labor not less than the hourly minimum rates of wages set forth in these special provisions.

A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

| | | | |
|-----------------|--------------------------|---------------------------------|---|
| Cash | <input type="checkbox"/> | } . In the amount of..... | |
| Cashier's Check | <input type="checkbox"/> | |dollars |
| Certified Check | <input type="checkbox"/> | | (\$) payable to the State Treasurer: |
| Proposal Bond | <input type="checkbox"/> | In the amount of 5% of the bid. | |

FIRM NAME.....

SIGNATURE OF AUTHORIZED OFFICIAL(S).....

Dated this..... day....., 19.....

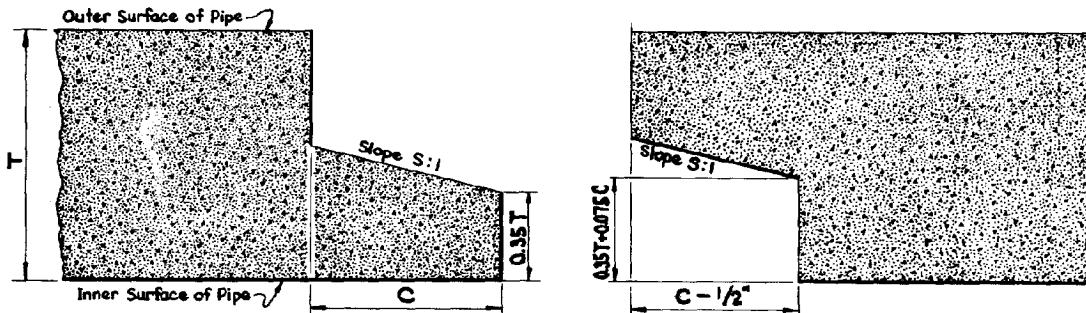
Address of Bidder:
(Principal Place of Business).....

NOTE: (1) This proposal form is not transferable and any alteration of the firm name entered hereon without prior permission from the Director of Highways will be sufficient cause for considering the proposal irregular and consequent rejection of the bid.

(2) Please refer to section 2.05 of the standard specifications, re: "Preparation of Proposal."

PSH 1 (SR 5)
Seattle Freeway
South Albion Storm Sewer Outfall
EBI-5-3(243)161 - 1965

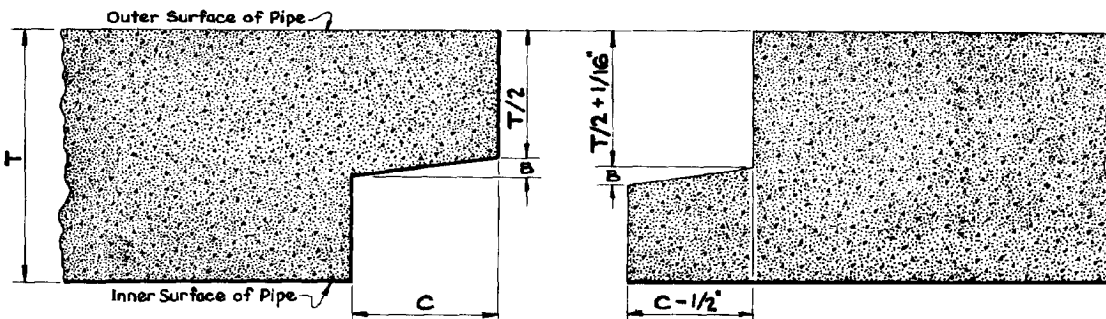
Proposal Form
Revised 12/1/61



TONGUE AND GROOVE ENDS - TYPE A

S - NOT LESS THAN 4

MINIMUM VALUES OF "C"
 C = T (for Pipe Diameters of 12" to 42", inclusive)
 C = 4 1/2" (for Pipe Diameters over 42")



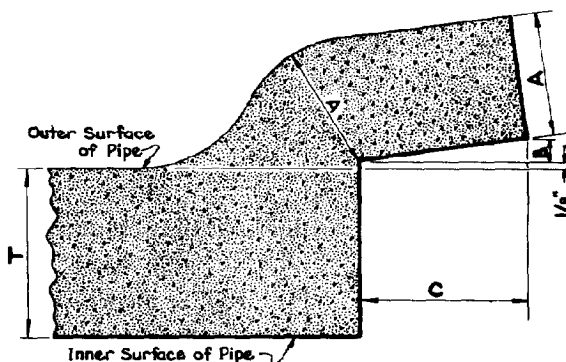
TONGUE AND GROOVE ENDS - TYPE B (WITH PRECAST CONCRETE COLLARS)

B - NOT LESS THAN C/8 NOR MORE THAN C/4

MINIMUM VALUES OF "C"
 C = 2" WHEN T = 1 3/4" TO 3 3/4"
 C = 3" WHEN T = 4" TO 4 3/4"
 C = 3 1/2" WHEN T = 5" TO 6"

NOTE:

See the Standard Specifications
 for further requirements.



BELL END

A, NOT LESS THAN 3T/4
 B, NOT LESS THAN C/8
 NOR MORE THAN C/4

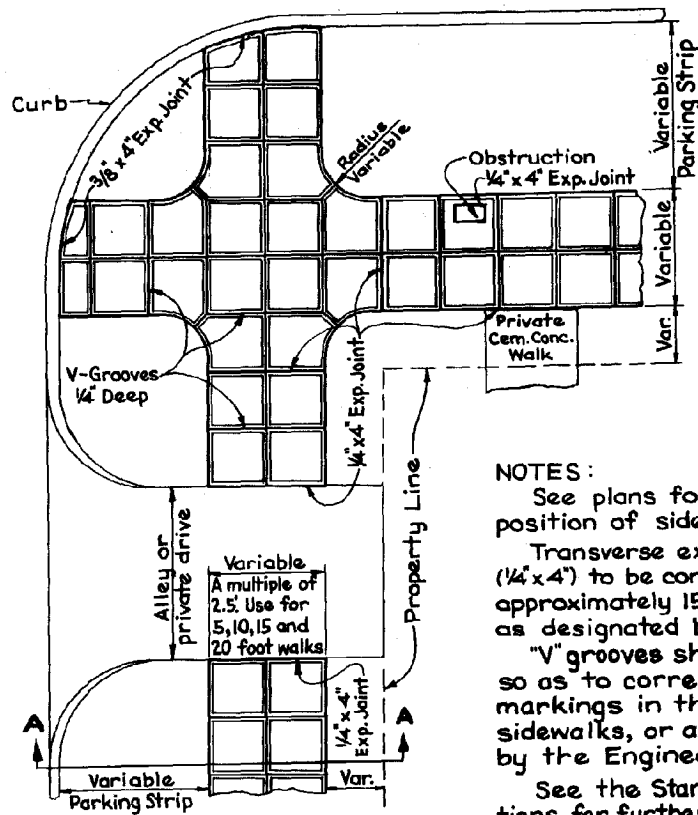
VALUES OF "C"
 C = 1 3/4" Min. (for 12" Diam. Pipe)
 C = T (for all other pipes) but need
 not exceed 4"

STANDARD
 DESIGN OF ENDS
 FOR CONCRETE PIPE
 WASHINGTON STATE HIGHWAY COMMISSION
 DEPARTMENT OF HIGHWAYS
 OLYMPIA, WASHINGTON

APPROVED JULY 16, 1951

W. L. B. S.
 DIRECTOR OF HIGHWAYS

| | | |
|---------|---------------------------|--------|
| 12-0-0 | NOTES REVISED | W.D.R. |
| 12-1-24 | "B48" DELETED UNDER NOTES | W.D.R. |
| 12-1-24 | REVISION | BY |



**TYPICAL SIDEWALK LAYOUT
PLAN NO. 1**

NOTES:

See plans for width and position of sidewalks.

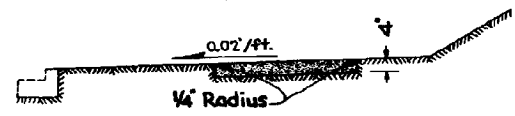
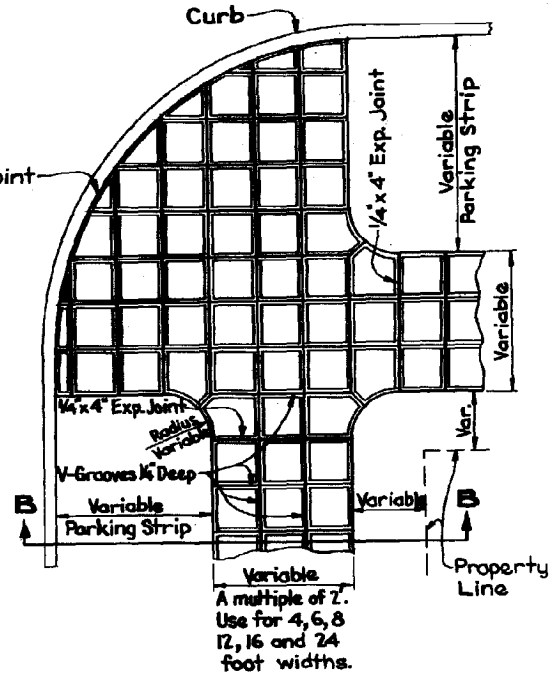
Transverse expansion joints (1/4" x 4") to be constructed at approximately 15' intervals or as designated by the Engineer.

"V" grooves shall be spaced so as to correspond to the markings in the existing sidewalks, or as designated by the Engineer.

See the Standard Specifications for further requirements.

PAYMENT:

"Cement Concrete Sidewalk,"
per Sq. Yd.



**SECTION B-B
TYPICAL SIDEWALK LAYOUT
PLAN NO. 2**

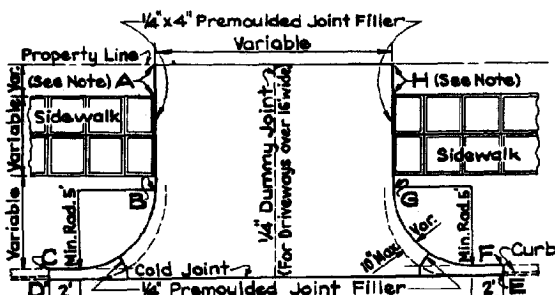
**STANDARD
CEMENT CONCRETE SIDEWALK**

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

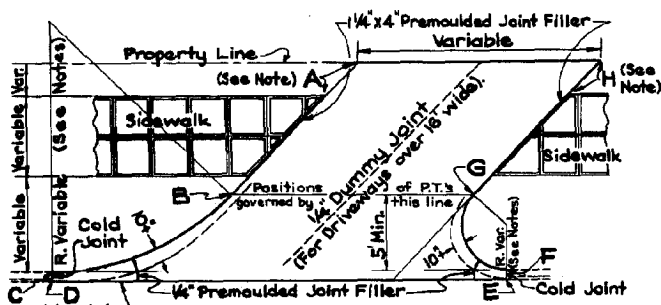
APPROVED SEPT. 17, 1967

W.D. R. [Signature]

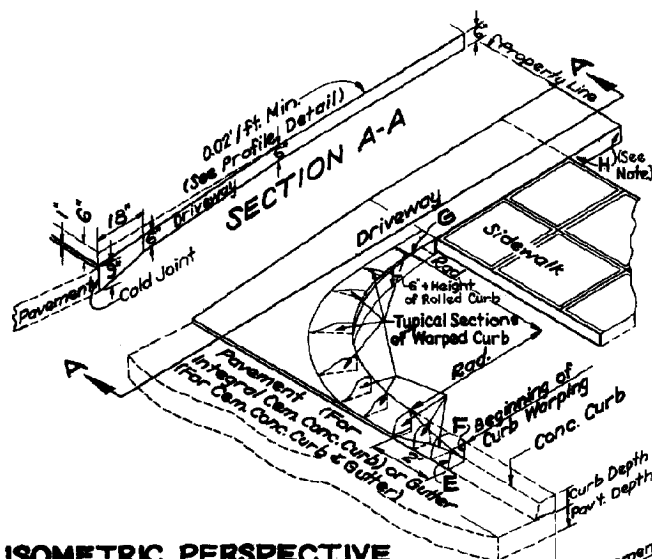
| | | |
|--------|--|--------|
| 7-2-62 | NOTES REVISED; STANDARD NUMBER CHANGED FROM A-28 | W.D.R. |
| DATE | REVISION | BY |



**TYPICAL PLAN
OF NORMAL ALLEY OR DRIVEWAY**



**TYPICAL PLAN
OF SKEWED ALLEY OR DRIVEWAY
MINIMUM SKEW 45°**



**ISOMETRIC PERSPECTIVE
SHOWING PORTION OF ALLEY
OR DRIVEWAY WITH A
ROLLED CURB RETURN**

NOTES:

Cement Concrete Driveways shall be constructed to the minimum depth of 6 inches, unless otherwise specified on the plans.

Driveways shall be constructed the same as and meet all the requirements of Section 33 of the Standard Specifications except that Wood Forms and Hand Compacting and Finishing may be used.

The area to be paved as a unit is shown as area A, B, C, D, E, F, G, H, A.

Driveways shall extend to back side of Sidewalk or to Property Line as detailed on the plans or as directed by the Engineer.

Where Driveways are to be constructed, the roadway pavement or gutter construction shall extend only to the lines CD, DE and EF.

The back side of the curb return shall have a constant radius of not less than 5 feet. It shall be as much longer as is consistent with existing conditions.

Any special forms needed for the construction of the curb shall be approved by the Engineer.

For further construction requirements see Sections 33, 35 and 36 of the Standard Specifications.

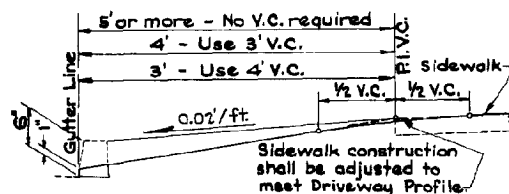
The radii of the curb returns for Skewed Driveways are dependent on the positions of the P.T.'s of the curb returns, B and G.

PAYMENT:

Cement Concrete Driveways shall be measured by the number of square yards contained in the area A, B, C, F, G, H, A and shall be paid for as "Cement Concrete Driveway (of the various mixes and days)," per Sq. Yd.

That portion of the "Pavement" & "Curb" or the "Curb and Gutter" within the driveway area, CDEF, will be measured and paid as pavement and curb or as curb and gutter; of the particular type called for on the plans.

That portion of the cement concrete above the plane of the driveway which forms a rolled or warped curb and the thickened edge adjacent to the pavement shall be considered incidental to the construction of the Driveway.



DRIVEWAY PROFILES

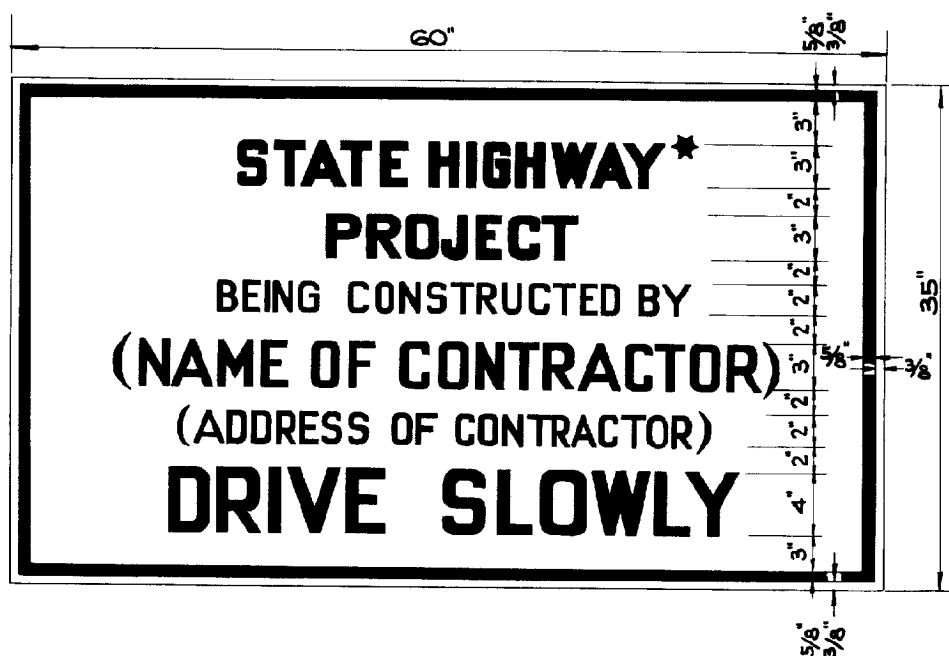
(Based on 0.02'/ft. Slope from Sidewalk to height of normal curb at the Gutter Line).

STANDARD CEMENT CONCRETE DRIVEWAYS

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

APPROVED: Dec. 10, 1962

W. J. G.
DIRECTOR OF HIGHWAYS



★STATE HIGHWAY
COUNTY ROAD
CITY STREET } Designation to be obtained from the Contract Plans.

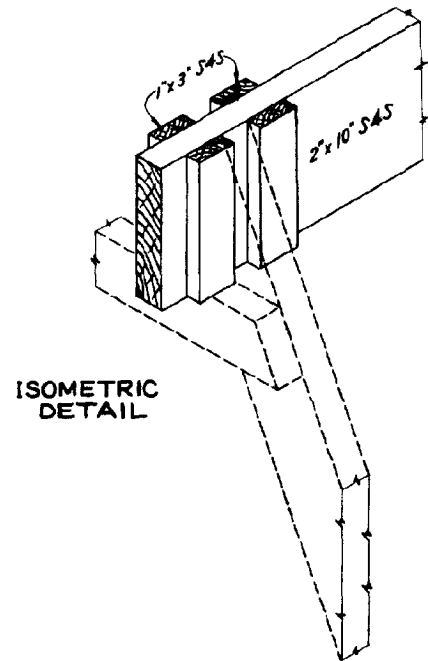
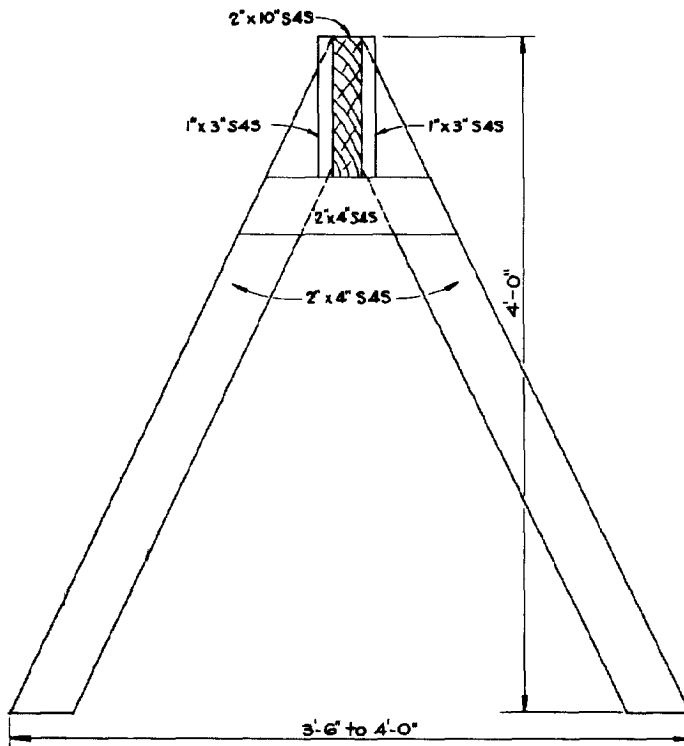
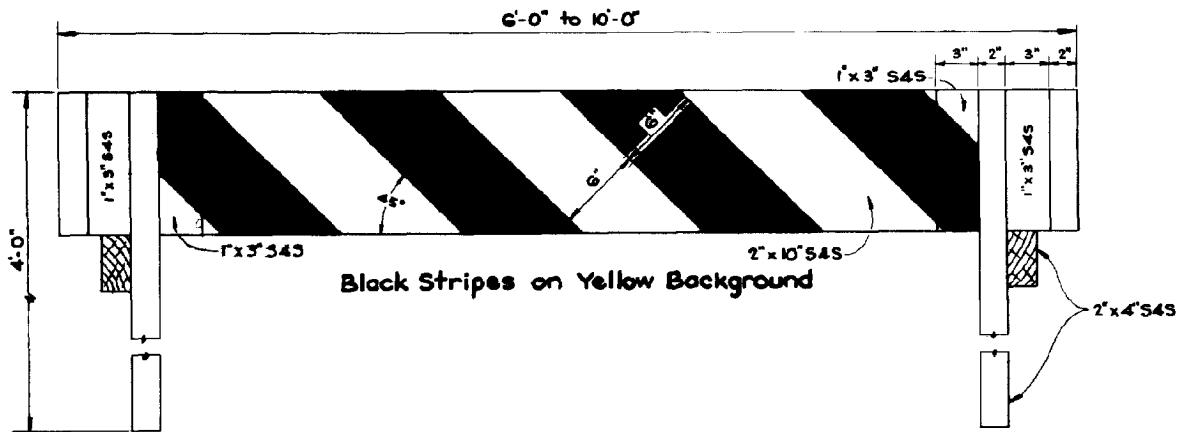
NOTE:

Signs have White Background with Black Letters and Black Border. Letters to be of the size shown above. Sign to be furnished and erected by the Contractor.

STANDARD
CONTRACTOR'S PROJECT SIGN
WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

APPROVED: Dec. 19, 1962

[Signature]
DIRECTOR OF HIGHWAYS

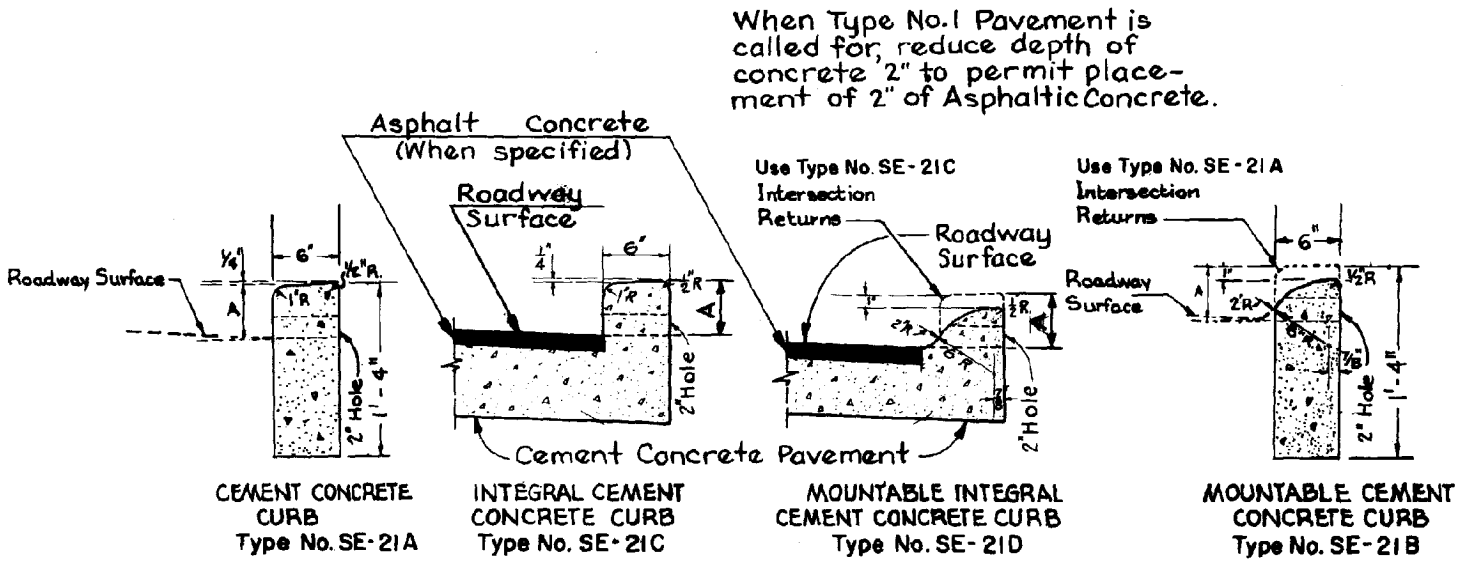
ISOMETRIC
DETAIL

Standard Portable Barricade to be furnished and erected by the Contractor at his own expense. See Section 7.08A of the Standard Specifications.

STANDARD
PORTABLE BARRICADE
WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

APPROVED: Dec. 15, 1962

[Signature]
DIRECTOR OF HIGHWAYS



NOTES:

Curbs shall be constructed in accordance with the following sections of the Standard Specifications:

Cement Concrete Curb Type No. SE-21A Section 36

Mountable Cement Concrete Curb Type No. SE-21B Section 36

Integral Cement Concrete Curb Type No. SE-21C Section 35

Mountable Integral Cement Concrete Curb Type No. SE-21D Section 35

See Standard Plans of curb and gutter for further requirements.

Value of A:

Residential Streets 5"

Arterial Streets 6"

PAYMENTS:

"Cement Concrete Curb Type No. SE-21A," per Lin. Ft.

"Mountable Cement Concrete Curb Type No. SE-21B," per Lin. Ft.

"Integral Cement Concrete Curb Type No. SE-21C," per Lin. Ft.

"Mountable Integral Cement Concrete Curb Type No. SE-21D," per Lin. Ft.

Curb shall be measured and paid by the Linear Foot across all driveways.

SEATTLE STANDARD

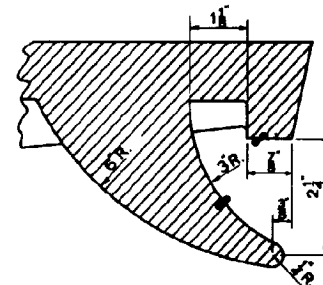
**CEMENT CONCRETE CURBS
TYPES NOS. SE-21A, B, C & D**

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

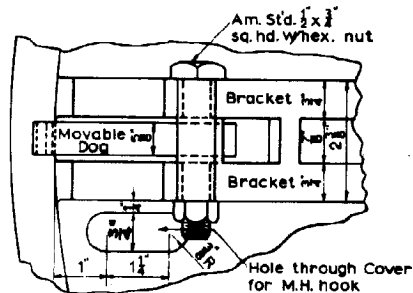
APPROVED: SEPT. 22, 1958

W. B. ...
DIRECTOR OF HIGHWAYS

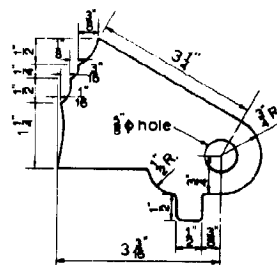
| | | |
|----------|---------------------------------|------------------|
| G-27-G2 | NOTES REVISED | W.D.P. |
| 10-7-59 | ASPHALT CONCRETE AND NOTE ADDED | W.D.P. |
| 10-20-58 | BASED ON CITY OF SEATTLE STD. | <i>J. H. ...</i> |



Sectional View – Fixed Dog



Bottom View - Fixed Dog



SEATTLE STANDARD
CAST IRON RING & COVER
TYPE NO. SE-37

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

APPROVED: OCT. 2 1961

WASHINGTON
W. Suggs
DIRECTOR OF HIGHWAYS

CASTINGS SHALL BE GRAY IRON CASTINGS,
ASTM DESIGNATION A-48.

3. ALL BEARING SURFACES SHALL BE FINISHED.
COVER TO BE FURNISHED WITH LOCKING ASSEMBLY
WHEN SPECIFIED.

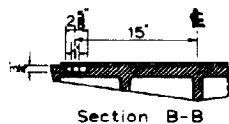
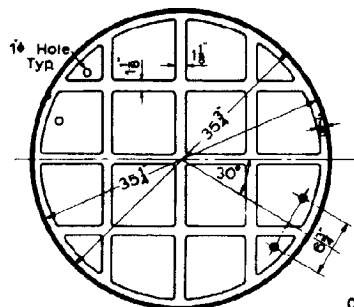
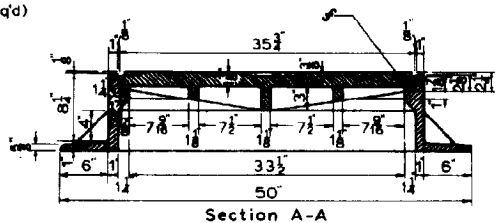
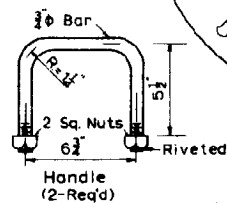
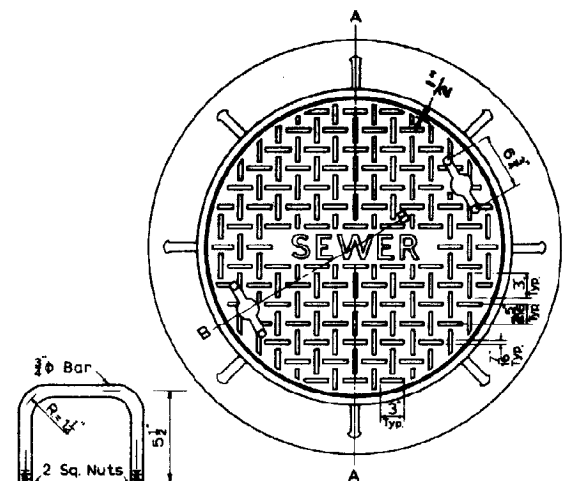
APPROVED BY CITY OF SEATTLE

HW 5-18-6

SE-37
KCSlip4 37084

SE-37

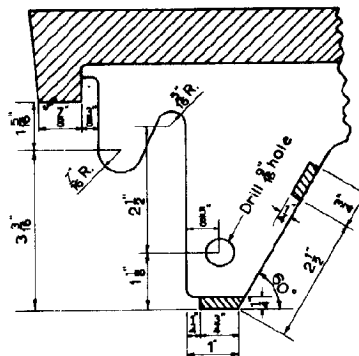
SEA403629



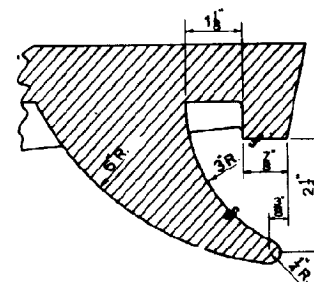
NOTE:

CASTINGS SHALL BE GRAY IRON CASTINGS.
ASTM DESIGNATION A-48

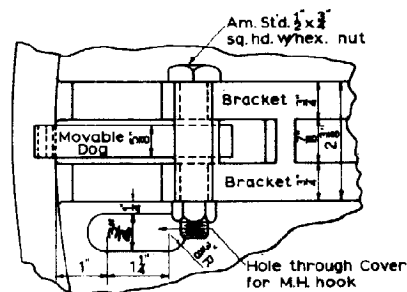
ALL BEARING SURFACES SHALL BE FINISHED.
COVER TO BE FURNISHED WITH LOCKING ASSEMBLY
WHEN SPECIFIED.



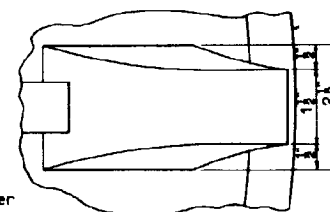
Locking Dog Bracket



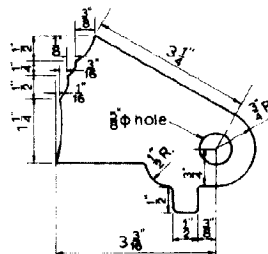
Sectional View - Fixed Dog



Bottom View - Locking Assembly



Bottom View - Fixed Dog



Locking Dog
(Malleable Iron)

SEATTLE STANDARD
CAST IRON RING & COVER
TYPE NO. SE-38

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

APPROVED: OCT. 2 1961

W. S. Suggs
DIRECTOR OF HIGHWAYS

APPROVED BY CITY OF SEATTLE *W. S. Suggs*

KCSllp4 37085

SE-38

SE-38

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON

January 5, 1966

ATTENTION: ALL BIDDERS AND PLANHOLDERS

PSH 1 (SR 5)
Seattle Freeway
South Albro Storm Sewer Outfall
EBI-5-3(243)161

ADDENDUM NO. 1

You are hereby notified that the special provisions and plans on the above referenced project are amended.

The special provisions are hereby amended as follows:

1. On page 29, under the heading "ALTERNATE CONSTRUCTION MANHOLE 2 TO MANHOLE 13", the following shall be added as additional paragraphs:

Where the Contractor elects to furnish concrete sewer pipe, it shall be placed as shown on the plans based on the outside diameter of the pipe used.

The maximum limits for measurement and payment for the various items of work involved, including manhole construction, will be based on an outside diameter for the pipe of 67 1/2 inches, regardless of the type of pipe placed.

2. On page 31, under the heading "TIMBER, LUMBER AND TIMBER PILING", the following shall be added as an additional paragraph:

All bolts, nuts and washers used in the construction of the timber fenders shall be galvanized in accordance with ASTM Designation A-153, class C.

The plans are hereby amended as follows:

3. On sheet 13, the ASTM Designation for the 3/8" x 12" Sponge Rubber Gasket shall be revised to read:

ASTM Designation D-1056-59T Grade SCE-43.

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The plan sheet has not been revised for item 3 of this addendum; however, the Contractor shall take this change into consideration when submitting his bid.

All bidders in advance of the opening of bids will be required to furnish the Director of Highways with evidence of the receipt of said addendum, which addendum will be incorporated in and made a part of the contract when awarded and when formally executed.

C. G. PRAHL, P.E.
Director of Highways

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SOURCE OF MATERIALS

** No source has been provided for top soil, gravel backfill for pipe bedding, selected backfill material, crushed surfacing base course, asphalt concrete aggregates, or concrete aggregates. The Contractor shall make his own arrangements to obtain these materials at his own expense and all costs of acquiring, producing and placing will be considered incidental to the unit bid items involved.

PITS AND/OR QUARRIES FURNISHED BY CONTRACTOR*

The source shall be so selected that after the materials have been removed, the pit will drain to a natural drainage course and no excavation shall be made to a greater depth than the water in such natural drainage course when the water is at a normal elevation.

Should the source selected by the Contractor be one which would not drain as outlined herein, permission shall be obtained by the Contractor from the governing body of the city or county for the removal of the materials from such pit or quarry. Following the removal of materials, the entire area shall be cleared of all rubbish, temporary structures and equipment, and the Contractor shall secure a release from the permitter which states that the pit has been left in a condition satisfactory to the permitter.

The aforementioned special provision does not apply to pits being operated commercially.

HAULING ON OTHER THAN STATE HIGHWAYS

If the sources of materials provided by the Contractor require hauling over roads other than State Highways, the Contractor shall, at his own cost and expense, make all arrangements for the use of the haul routes.

The Contractor shall make all arrangements with the City of Seattle for the use of city streets in the hauling of waste materials and debris.

The Contractor shall coordinate his hauling operations and his haul routes with the other contractors and shall alter his haul routes when they interfere with construction on the other projects.

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WASTE SITE*

Whenever the special provisions require the disposal of debris or other materials by the Contractor and no waste site is provided under the contract, the Contractor shall make his own arrangements at his own expense for the disposal of these waste materials and shall protect the State from any and all damages arising therefrom.

GRAVEL BACKFILL FOR PIPE BEDDING

Gravel backfill for pipe bedding shall meet the requirements of section 22-2 of **the standard specifications for gravel base class B except that the maximum particle size is hereby limited to 3/4 inch.

Gravel backfill for pipe bedding shall be constructed as specified in section 21-3 of the standard specifications for backfill for foundations.

Gravel backfill for pipe bedding will be measured by volume in trucks at the point of unloading, or by the ton in trucks in accordance with the unit shown in the bid proposal.

The unit contract price per ton or per cubic yard for "Gravel Backfill for Pipe Bedding" shall be full compensation for furnishing all labor, materials, tools and equipment and for all other costs and expenses necessary or incidental to loading, hauling and placing of gravel backfill for pipe bedding as specified above. No additional compensation will be made for haul.

SELECTED BACKFILL MATERIAL

Where shown on the plans, or where directed by the Engineer, the Contractor shall furnish, place and compact selected backfill material as specified in these special provisions.

Material

Selected backfill material shall be selected material which compacts to a dry density over 105 pounds per cubic foot and which has optimum moisture content of less than 20% when tested in accordance with the requirements of section 11-3.13E5 of the standard specifications. The plasticity index (ASTM Designation D424) shall not be over 10. Contamination protection in accordance with section 45-3.08 of the standard specifications shall apply.

Placing and Compacting

Selected backfill material that must support roadway embankment or which is a part of any roadbed embankment shall be placed in layers and compacted in accordance with section 11-3.13E4 of the standard specifications, except as modified herein, to at least 95 percent of the maximum density as determined by the "Compaction Control Test". All other selected backfill material shall be compacted to at least 90 percent of the maximum density.

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Measurement and Payment

** Backfill material required to backfill where structure excavation is involved, shall be included in the unit contract prices per cubic yard for "Structure Excavation" and per hour for "Mechanical Tamper" in accordance with section 45 of the standard specifications, except that section 45-3.09 of the standard specifications shall be modified to provide that if the excavated material is of a quality unacceptable to the Engineer for backfill purposes the Contractor shall furnish material meeting the requirements as herein specified and payment therefore will be made at the unit contract price per cubic yard for "Furnishing, Placing and Compacting Selected Backfill Material". Measurement for selected backfill material to be so used shall be to the neat line volume in place within the pay limits of structure excavation only. When payment is made for "Furnishing, Placing, and Compacting Selected Backfill Material" no payment will be made for "Mechanical Tamper".

Water used for compaction of backfill material will be regarded as incidental to other items of work and no special measurement will be made.

STRUCTURE EXCAVATION

Structure excavation shall conform to the requirements of section 45 of the standard specifications except as herein modified.

It is anticipated that State-owned equipment will be available for the tests specified in section 45-3.07. Any additional equipment required shall be furnished by the Contractor on a force account basis.

Excavation for Trenches

The horizontal limits of "Structure Excavation" as shown on the plans shall be considered maximum for trench width along public traveled ways.

Excavation for Structures

Excavation slopes shall be protected from excessive moisture by sheathing or other cover. Costs for such protection shall be considered incidental to the various unit bid items involved.

Shoring and Sheet piling for Excavations

Shoring and/or sheet piling shall be designed by the Contractor for the soil pressures and conditions existent at the various excavation sites and plans therefor shall be submitted for approval in the manner described in section 45-3.05 of the standard specifications and shall meet the requirements of the Department of Labor and Industries.

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Three tension shear tests representing each gage of metal to be used in the manufacture of the pipe will be performed. Test specimens shall be prepared by lapping 2 strips of corrugated culvert sheet 1-1/2 inches by 5 inches and joining them together by a single spot weld duplicating the size to be used in production. The length of lap shall be 1-1/2 inches. The longer axis of the specimen shall be parallel to the direction of rolling.

The specimens shall be submitted to the Engineer for testing in tension to destruction in a standard calibrated test machine. The minimum shear test in pounds, as determined by this test, shall be not less than that shown in the following table for the gage of metal used in the test.

| Thickness of Corrugated Sheet | | Minimum Shear Strength |
|-------------------------------|--------|------------------------|
| Gage | Inches | Pounds |
| 16 | 0.065 | 4,000 |
| 14 | 0.083 | 5,000 |
| 12 | 0.109 | 7,000 |
| 10 | 0.134 | 8,000 |
| 8 | 0.165 | 10,000 |

Three tension shear tests will be made at the start of each work shift. Three tension shear tests will be made for each change in sheet gage.

One copy of the approved machine setting shall be posted on the machine for use by the machine operator. No other settings may be varied, except weld phase shift and pressure which may be varied by 10% plus or minus. If the approved machine settings fail to produce quality welding within these limits, fabrication shall be stopped until the cause of the trouble is corrected.

Workmanship and finish shall conform to the requirements of section 18 of AASHO Designation M 36, and in addition thereto, at least 95% of the required weld area shall be completely fused.

****ALTERNATE CONSTRUCTION MANHOLE 2 TO MANHOLE 13**

The Contractor will be allowed the option of furnishing and placing class IV rubber gasketed reinforced concrete sewer pipe 66" diameter instead of the Type 5 metal sewer pipe 10 gage 66" diameter shown on the plans. Payment therefor will, however, be at the unit bid price for "Type 5 Metal Sewer Pipe 10 Gage 66 Inch Diameter", as shown on the plans and proposal. All contiguous pipe shall be of the same kind.

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SEWERS

The 1st paragraph of section 67-4 of the standard specifications, "MEASUREMENT," is hereby deleted and the following substituted therefor:

The length of sewer pipe will be the number of linear feet of completed installation measured along the invert and will include the length through elbows, tees and fittings. The number of linear feet will be measured from the center of manhole to center of manhole or to the inside face of catch basins and similar type structures.

Class II rubber gasketed reinforced concrete sewer pipe, 36 inch diameter, shall be tested in accordance with section 67-3.04 of the standard specifications. All other pipe specified for this contract will not be tested as required by this section.

The Contractor will be required to utilize the necessary workmanship, construction methods, and materials, necessary to achieve as nearly a water tight installation as possible on all other pipe. Failure to do so will be considered a cause for rejection and the item must be repaired or replaced.

Type 5 metal sewer pipe shall have bands, as shown on the plans, be fabricated round and need not be strutted for installation.

** Section 64-2.01B4 of the standard specifications "Marking Elliptical Reinforcement" is amended as follows:

The 1st sentence is hereby revised to provide that the 3-inch wide painted stripes are only required for a distance of 2 feet from each end of the section.

The following paragraph is hereby added:

In addition to the requirements as set forth in AASHO Designation M 170, it will be required on all pipe 30 inches and over in diameter with elliptical steel reinforcement that the manufacturer expose the reinforcement in not less than one of every 3 lengths of pipe manufactured. A hole exposing the steel shall be cut on the inside of the pipe at "Top" or "Bottom" and a second hole on the outside, 90 degrees from the "Top" or "Bottom" position.

CASTINGS

Iron castings used on this project shall conform to the provisions of section 53 of the standard specifications except that section 53-2.02 shall be supplemented by the following:

All castings which are detailed on standard plans bearing an SE designation shall be ASTM-A-48, Class 30. All other castings shall be ASTM-A-48, Class 40.

MANHOLES

Where shown on the plans or where designated by the Engineer, the Contractor shall construct manholes in accordance with section 68 of the standard specifications, standard plan SE-29, and details as shown on the plans for manholes types A, B, C, D and E.

Standard plan SE-29C shall be modified to show SE-38 cast iron locking ring and cover instead of SE-30 ring and cover. Cast iron locking rings and covers type No. SE-37 shall be used on manholes types A, B, C, D and E.

The "2 inch min." distance shown on the manhole elevation for type No. SE-29C between the top of the pipe and the bottom of the "Precast 8 Inch Top Slab B" shall be changed to a 12 inch minimum.

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The "Maximum 11'-0" height" shown on the manhole elevation for Type No. SE-29C between the bottom of the pipe and the top of the manhole shall be changed to "maximum 15'-0" height".

Measurement for determination of height shall be the distance in linear feet from the top inside elevation of the lowest inlet pipe to the bottom of the cast iron ring.

The standard plans shall be modified to show the applicable manhole bid items and section 68-5 of the standard specifications shall be supplemented by the following bid items:

"Manhole Type A under 12 feet"
"Manhole Type B under 12 feet"
"Manhole Type C under 12 feet"
"Manhole Type D under 12 feet"
"Manhole Type E under 12 feet"
"Manhole Type SE-29 under 12 feet"
and "Gravel Backfill for Pipe Bedding"

On all SE standard manholes, the depth of the brick leveling course shall be 8 inches minimum to 12 inches maximum. Where directed by the Engineer, the Contractor shall place a 4 inch bed of "Gravel Backfill for Pipe Bedding" under the manholes. Covers for manholes on this project shall be cast with the word "DRAIN".

** The dimensions shown on sheets 8 through 11 of the plans, "Manhole Details," are for type 5 metal sewer pipe and welded steel pipe. Should the Contractor elect to furnish and place class IV rubber gasketed sewer pipe in lieu of the Type 5 metal sewer pipe between Manholes 2 and 13, as provided in the special provisions, he shall submit a revised design for the affected manholes for approval including 6 sets of complete plans prepared in accordance with section 5.03 of the standard specifications together with supporting calculations. After all corrections and changes required by the Engineer for have been accomplished, an original tracing or acceptable equal shall be furnished by the Contractor to the Engineer. Work shall not be performed on the manholes until approval of the design has been given by the Engineer.

The unit contract prices for the various types of manholes involved, shall be full compensation for all work necessary to construct the manholes as specified herein, including all costs involved in the construction of the special details shown on the plans and described in these special provisions and in the standard specifications.

TIMBER, LUMBER AND TIMBER PILING

All timber, lumber and timber piling used on this project shall be Douglas Fir treated by the full cell process to retain not less than 10 pounds of creosote oil per cubic foot of timber. Materials, workmanship, treatment and measurement and payment shall be in accordance with the applicable provisions of sections 43, 46, 54, and 55 of the standard specifications.

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Payment for "Manhole Type A under 12 Feet", shall include costs for all items of manhole sections cast iron ring and cover, ladder rungs, reinforced concrete box or other items incidental to completion of the manhole except for the timber piles and class H concrete seal. Costs of furnishing and installing the 72 inch diameter flap gate shall be regarded as incidental to other items of work for the outfall structure and manhole type A, and no separate payment will be made therefor.

All labor, tools, equipment and materials required to construct the cofferdam shall be regarded as incidental to the construction of the outfall structure and manhole, type A and costs therefor shall be included in the various bid items involved.

30 INCH DIAMETER CAST IRON PIPE COOLING WATER LINE CROSSING

On the east side of East Marginal Way at approximate station 18+88 the storm sewer outfall line crosses an existing 30 inch diameter cast iron pipe water line. This water line supplies cooling water to the adjacent City of Seattle Steam Generating Plant and is inactive except during periods of power generation at the adjacent steam power generating plant. The Contractor shall interrupt this existing cast iron cooling water line and reconnect it across the top of the storm sewer outfall as shown in detail on the contract plans. The relocation work may be done in the period between April 1 and September 1. The plant is on a standby and/or emergency ready basis from September 1 to April 1, and cannot be shut down when it is in operation or scheduled for operation. If the relocation work must be performed between September 1 and April 1, written request for approval of the relocation schedule must be sent to the Engineer 60 days prior to the proposed work. Approval of the schedule shall be contingent on the operation of the plant and may be withdrawn at any time. All labor, materials, fittings, anchors, concrete and other items necessary to interrupt the line and reconnect it as shown on the plans, shall be supplied by the Contractor.

** The dimensions shown on sheet 11 of the plans at the top and bottom of the sewer pipe are to the outside of the barrel and shall obtain regardless of the sewer pipe that the Contractor elects to use.

The unit lump sum price for "30 Inch Diameter Cast Iron Pipe Cooling Water Line Crossing" will be full compensation for furnishing all materials, equipment, and labor necessary to sever the existing line and reconnect and anchor it as shown on the plans. There will be no separate payment for excavation, concrete, or other items.

CONSTRUCTION IDENTIFICATION SIGNS*

The Contractor on this project will not be required to furnish construction identification signs. The Contractor on the existing project will alter the existing signs as required when requested by the Engineer.

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